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(54) Title: GENES AND GENE EXPRESSION PRODUCTS THAT ARE DIFFERENTIALLY REGULATED IN PROSTATE CANCER		
(57) Abstract This invention relates to novel human genes, to proteins expressed by the genes, and to variants of the proteins. The invention also relates to diagnostic and therapeutic agents related to the genes and proteins, including probes, antisense constructs, and antibodies. The invention further relates to polynucleotides differentially expressed in prostate cancer.		

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GENES AND GENE EXPRESSION PRODUCTS THAT ARE DIFFERENTIALLY REGULATED IN PROSTATE CANCER

FIELD OF THE INVENTION

This invention relates to the area of diagnosis, prognosis, and treatment
5 of cancer, tumor progression, hyperproliferative cell growth, and accompanying
physical and biological manifestations. More specifically, the invention includes
polynucleotides that are differentially regulated in prostatic disorders, such as metastatic
prostate cancer, localized prostate cancer, and benign prostate hyperplasia (BPH).

BACKGROUND OF THE INVENTION

10 Genes that are up- or down-regulated in cancer or tumor progression are
useful for therapeutic and diagnostic purposes. For example, detection of genes or gene
expression products up-regulated in hyperproliferative cells can be a predictive or
diagnostic marker of the onset or the progression of cancer. Early diagnosis can be
useful if the cancer, tumors, or hyperproliferating cells can be inhibited, removed, or
15 terminated to prevent metastasis or recurrence of cancerous growth. Such early warning
is of particular use to prostate cancer patients, where removal of the growth, tumor, or
cells is beneficial if the disease is confined to the prostate. There is a need in the art for
genes related to cancer and tumor progression.

SUMMARY OF THE INVENTION

20 The present invention provides methods and reagents for diagnosing
cancer, tumor progression, hyperproliferative cell growth, and accompanying biological
and physical manifestations. Reagents for such diagnostic kits include:

- (a) polynucleotides comprising a sequence capable of hybridizing to
one or more of SEQ ID NO:1-339 or complement thereof;
- 25 (b) polypeptides comprising the amino acid sequence encoded by
any one of SEQ ID NO:1-339; and
- (c) antibodies capable of binding polypeptides comprising the amino
acid sequence of (b).

The methods of diagnosis of the present invention include both nucleic acid assays and immunoassays.

In another embodiment, the present invention provides both compositions and methods for treating or ameliorating cancer, tumor progression, hyperproliferative cell growth, and accompanying biological and physical manifestations. The compositions for treatment or amelioration include:

- (a) polynucleotides comprising the sequence capable of hybridizing to one or more of the sequences shown in SEQ ID NO:1-339 and complement thereof, including antisense, ribozyme and gene therapy nucleic acid constructs;
- 10 (b) polypeptides comprising the amino acid sequence encoded by any one of SEQ ID NO:1-339; and
- (c) antibodies capable of binding polypeptides of polypeptides comprising the amino acid sequence (b).

Methods of treatment or amelioration include administering compositions of polynucleotides, polypeptides, antibodies, or combinations thereof and can be used

- 15 (a) to inhibit translation and/or transcription;
- (b) to inhibit biological activity;
- (c) as a vaccine antigen; and
- (d) as an immune system inducer.

20 Such compositions can be administered systemically or locally to the desired site.

In one embodiment, the present invention provides a composition comprising an isolated polynucleotide selected from the group consisting of

- (a) any one of SEQ ID NOs:2, 5, 49, 50, 99, 100, 115, 116, 118, 130, 131, 140, 144, 145, 146, 157, 158, 159, 163, 164, 165, 166, 177, 178, 180, 211, 212, 213, 218, 219, 220, 221, 229, 232, 233, 242, 243, 248, 249, 254, 256, 257, 259, 272, 273, 277, 288, 289, 292, 293, 316, 317, and 330;
- (b) a polynucleotide that encodes a variant of the polypeptide encoded by (a); and
- (c) a polynucleotide encoding a protein expressed by a polynucleotide having the sequence of any one of the sequences of (a).

30

Preferably, the nucleic acid obtained from the biological material of part (b) above is genomic DNA or mRNA. The nucleic acid can also be cDNA complementary to the mRNA.

Another embodiment of the invention is the use of the isolated
5 polynucleotides or parts thereof as diagnostic probes or as primers.

In another embodiment, the present invention provides a composition comprising a polypeptide, wherein said polypeptide is selected from the group consisting of:

(a) a polypeptide encoded by any one of SEQ ID Nos:2, 5, 49, 50,
10 99, 100, 115, 116, 118, 130, 131, 140, 144, 145, 146, 157, 158, 159, 163, 164, 165, 166, 177, 178, 180, 211, 212, 213, 218, 219, 220, 221, 229, 232, 233, 242, 243, 248, 249, 254, 256, 257, 259, 272, 273, 277, 288, 289, 292, 293, 316, 317, and 330;

(b) a polypeptide encoded by full-length mRNA or cDNA
corresponding to any one of SEQ ID NO:1-339; and

15 (c) a variant of the protein (a) or (b);

In certain preferred embodiments, the polynucleotide is operably linked to an expression control sequence. The invention further provides a host cell, including bacterial, yeast, insect and mammalian cells, transformed with the polynucleotide sequence. The invention also provides the full-length cDNA and the full length human
20 gene corresponding to the polynucleotide.

Protein and polypeptide compositions of the invention may further comprise a pharmaceutically acceptable carrier. Compositions comprising an antibody that specifically reacts with such protein or polypeptide are also provided by the present invention.

25 The invention further relates to a polypeptide or nucleic acid obtained by transforming a host cell with nucleic acid comprising at least one of SEQ ID NO:1-339, culturing the host cell, and recovering the replicated nucleic acid, the expressed RNA, and/or the expressed polypeptide.

Brief Description of the Figures

30 Figure 1 provides the open reading frame for clone SL 195.

Figure 2 provides the open reading frame for clone SL 197.

Figure 3 provides the immunohistochemistry staining results for clone SL 5 expression in a variety of normal and tumor tissues.

Detailed Description of the Invention

Genes that are up- or down-regulated in cancer or tumor progression are useful for therapeutic and diagnostic purposes. For example, a diagnostic assay to determine the stage of the disease also is useful in tailoring treatment of aggressive versus more mild cancer or tumor progression. The polynucleotide sequences and encoded polypeptides of the present invention are useful for these diagnostic or prognostic purposes.

Further, modulation of genes or gene expression products that are mis-regulated can be used to treat or ameliorate cancer, tumor progression, hyperproliferative cell growth, and the accompanying physical and biological manifestations. For example, the polynucleotide sequences provided herein as SEQ ID NO:1-339, can be used to construct the following polynucleotide and polypeptide compositions that are useful for treatment: antisense; ribozymes; antibodies; vaccine antigens; and immune system inducers, to induce dendritic cells, for example.

Identified herein are polynucleotide sequences that are upregulated in a cancer cell line, more specifically in a prostate cancer cell line. Thus, the present invention relates to methods and reagents for diagnosis, and to methods and compositions for treatment.

I. Use of Polynucleotides Having a Sequence of One or More of SEQ ID NO:1-339 to Obtain Full-Length cDNA and Full-Length Human Gene and Promoter Region

Full-length cDNA molecules comprising the disclosed sequences are obtained as follows. The polynucleotide or a portion thereof comprising at least 12, 15, 18, or 20 nucleotides is used as a hybridization probe to detect hybridizing members of a cDNA library using probe design methods, cloning methods, and clone selection techniques as described in U.S. Patent No. 5,654,173, "Secreted Proteins and Polynucleotides Encoding Them," incorporated herein by reference. Libraries of cDNA are made from selected tissues, such as normal or tumor tissue, or from tissues of a

mammal treated with, for example, a pharmaceutical agent. Preferably, the tissue is the same as that used to generate the polynucleotides, as both the polynucleotides and the cDNA represent expressed genes. Most preferably, the cDNA library is made from the biological material described herein in the Examples. Alternatively, many cDNA
5 libraries are available commercially. (Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual*, 2nd Ed. (Cold Spring Harbor Press, Cold Spring Harbor, NY 1989).

Members of the library that are larger than the polynucleotide, and preferably that contain the whole sequence of the native message, are obtained. In order
10 to confirm that the entire cDNA has been obtained, RNA protection experiments are performed as follows. Hybridization of a full-length cDNA to an mRNA will protect the RNA from RNase degradation. If the cDNA is not full length, then the portions of the mRNA that are not hybridized will be subject to RNase degradation. This is assayed, as is known in the art, by changes in electrophoretic mobility on
15 polyacrylamide gels, or by detection of released monoribonucleotides. Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual*, 2nd Ed. (Cold Spring Harbor Press, Cold Spring Harbor, NY 1989). In order to obtain additional sequences 5' to the end of a partial cDNA, 5' RACE (PCR Protocols: A Guide to Methods and Applications (Academic Press, Inc. 1990)) is performed.

20 Genomic DNA is isolated using polynucleotides in a manner similar to the isolation of full-length cDNAs. Briefly, the polynucleotides, or portions thereof, are used as probes to libraries of genomic DNA. Preferably, the library is obtained from the cell type that was used to generate the polynucleotides, but this is not essential. Most preferably, the genomic DNA is obtained from the biological material described
25 herein in the Examples. Such libraries may be in vectors suitable for carrying large segments of a genome, such as P1 or YAC, as described in detail in Sambrook *et al.*, 9.4-9.30. In addition, genomic sequences can be isolated from human BAC libraries, which are commercially available from Research Genetics, Inc., Huntsville, Alabama, USA, for example. In order to obtain additional 5' or 3' sequences, chromosome
30 walking is performed, as described in Sambrook *et al.*, such that adjacent and

overlapping fragments of genomic DNA are isolated. These are mapped and pieced together, as is known in the art, using restriction digestion enzymes and DNA ligase.

Using the polynucleotides sequences of the invention, corresponding full length genes can be isolated using both classical and PCR methods to construct and probe cDNA libraries. Using either method, Northern blots, preferably, are performed on a number of cell types to determine which cell lines express the gene of interest at the highest rate.

Classical methods of constructing cDNA libraries are taught in Sambrook *et al.*, *supra*. With these methods, cDNA can be produced from mRNA and inserted into viral or expression vectors. Typically, libraries of mRNA comprising poly(A) tails can be produced with poly(T) primers. Similarly, cDNA libraries can be produced using the instant sequences as primers.

PCR methods are used to amplify the members of a cDNA library that comprise the desired insert. In this case, the desired insert will contain sequence from the full length cDNA that corresponds to the instant ESTs. Such PCR methods include gene trapping and RACE methods. Gruber *et al.*, PCT WO 95/04745 and Gruber *et al.*, U.S. Pat. No. 5,500,356. Kits are commercially available to perform gene trapping experiments from, for example, Life Technologies, Gaithersburg, Maryland, USA. PCT Pub. No. WO 97/19110. (Apte and Siebert, *Biotechniques* 15:890-893, 1993; Edwards *et al.*, *Nuc. Acids Res.* 19:5227-5232, 1991).

The promoter region of a gene generally is located 5' to the initiation site for RNA polymerase II, and can be obtained by performing 5' RACE using a primer from the coding region of the gene. Alternatively, the cDNA can be used as a probe for the genomic sequence, and the region 5' to the coding region is identified by "walking up." If the gene is highly expressed or differentially expressed, the promoter from the gene may be of use in a regulatory construct for a heterologous gene.

Once the full-length cDNA or gene is obtained, DNA encoding variants can be prepared by site-directed mutagenesis, described in detail in Sambrook *et al.*, 15.3-15.63. The choice of codon or nucleotide to be replaced can be based on disclosure herein on optional changes in amino acids to achieve altered protein structure and/or function.

As an alternative method to obtaining DNA or RNA from a biological material, nucleic acid comprising nucleotides having the sequence of one or more polynucleotides of the invention can be synthesized. Thus, the invention encompasses nucleic acid molecules ranging in length from 15 nucleotides (corresponding to at least 5 15 contiguous nucleotides of one of SEQ ID NO:1-339) up to a maximum length suitable for one or more biological manipulations, including replication and expression, of the nucleic acid molecule. The invention includes but is not limited to (a) nucleic acid having the size of a full gene, and comprising at least one of SEQ ID NO:1-339; (b) the nucleic acid of (a) also comprising at least one additional gene, operably linked 10 to permit expression of a fusion protein; (c) an expression vector comprising (a) or (b); (d) a plasmid comprising (a) or (b) ; and (e) a recombinant viral particle comprising (a) or (b).

The sequence of a nucleic acid comprising at least 15 contiguous nucleotides of at least any one of SEQ ID NO:1-339, preferably the entire sequence of 15 at least any one of SEQ ID NO:1-339, is not limited and can be any sequence of A, T, G, and/or C (for DNA) and A, U, G, and/or C (for RNA) or modified bases thereof, including inosine and pseudouridine. The choice of sequence will depend on the desired function and can be dictated by coding regions desired, the intron-like regions desired, and the regulatory regions desired.

20 Where the entire sequence of any one of SEQ ID NO:1-339 is within the nucleic acid, the nucleic acid obtained is referred to herein as a polynucleotide comprising the sequence of any one of SEQ ID NO:1-339.

II. Expression of Polypeptide Encoded by Full-Length cDNA or Full-Length Gene

The polynucleotide, the corresponding cDNA, or the full-length gene is 25 used to express the partial or complete gene product. Appropriate polynucleotide constructs are purified using standard recombinant DNA techniques as described in, for example, Sambrook *et al.*, (1989) *Molecular Cloning: A Laboratory Manual*, 2nd ed. (Cold Spring Harbor Press, Cold Spring Harbor, New York). The polypeptides encoded by the polynucleotides are expressed in any expression system, including, for example,

bacterial, yeast, insect, amphibian and mammalian systems. Suitable vectors and host cells are described in U.S. Patent No. 5,654,173.

Bacteria. Expression systems in bacteria include those described in Chang *et al.*, *Nature* (1978) 275:615, Goeddel *et al.*, *Nature* (1979) 281:544, Goeddel *et al.*, *Nucleic Acids Res.* (1980) 8:4057; EP 0 036,776, U.S. Patent No. 4,551,433, DeBoer *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1983) 80:21-25, and Siebenlist *et al.*, *Cell* (1980) 20:269.

Yeast. Expression systems in yeast include those described in Hinnen *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1978) 75:1929; Ito *et al.*, *J. Bacteriol.* (1983) 153:163; Kurtz *et al.*, *Mol. Cell. Biol.* (1986) 6:142; Kunze *et al.*, *J. Basic Microbiol.* (1985) 25:141; Gleeson *et al.*, *J. Gen. Microbiol.* (1986) 132:3459, Roggenkamp *et al.*, *Mol. Gen. Genet.* (1986) 202:302; Das *et al.*, *J. Bacteriol.* (1984) 158:1165; De Louvencourt *et al.*, *J. Bacteriol.* (1983) 154:737, Van den Berg *et al.*, *Bio/Technology* (1990) 8:135; Kunze *et al.*, *J. Basic Microbiol.* (1985) 25:141; Cregg *et al.*, *Mol. Cell. Biol.* (1985) 5:3376, U.S. Patent Nos. 4,837,148 and 4,929,555; Beach and Nurse, *Nature* (1981) 300:706; Davidow *et al.*, *Curr. Genet.* (1985) 10:380, Gaillardin *et al.*, *Curr. Genet.* (1985) 10:49, Ballance *et al.*, *Biochem. Biophys. Res. Commun.* (1983) 112:284-289; Tilburn *et al.*, *Gene* (1983) 26:205-221, Yelton *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1984) 81:1470-1474, Kelly and Hynes, *EMBO J.* (1985) 4:475479; EP 0 244,234, and WO 91/00357.

Insect Cells. Expression of heterologous genes in insects is accomplished as described in U.S. Patent No. 4,745,051, Friesen *et al.* (1986) "The Regulation of Baculovirus Gene Expression" in: *The Molecular Biology Of Baculoviruses* (W. Doerfler, ed.), EP 0 127,839, EP 0 155,476, and Vlak *et al.*, *J. Gen. Virol.* (1988) 69:765-776, Miller *et al.*, *Ann. Rev. Microbiol.* (1988) 42:177, Carbonell *et al.*, *Gene* (1988) 73:409, Maeda *et al.*, *Nature* (1985) 315:592-594, Lebacqz-Verheyden *et al.*, *Mol. Cell. Biol.* (1988) 8:3129; Smith *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1985) 82:8404, Miyajima *et al.*, *Gene* (1987) 58:273; and Martin *et al.*, *DNA* (1988) 7:99. Numerous baculoviral strains and variants and corresponding permissive insect host cells from hosts are described in Luckow *et al.*, *Bio/Technology*

(1988) 6:47-55, Miller *et al.*, Generic Engineering (Setlow, J.K. *et al.* eds.), Vol. 8 (Plenum Publishing, 1986), pp. 277-279, and Maeda *et al.*, *Nature*, (1985) 315:592-594.

Mammalian Cells. Mammalian expression is accomplished as described in Dijkema *et al.*, *EMBO J.* (1985) 4:761, Gorman *et al.*, *Proc. Natl. Acad. Sci. (USA)* 5 (1982) 79:6777, Boshart *et al.*, *Cell* (1985) 41:521 and U.S. Patent No. 4,399,216. Other features of mammalian expression are facilitated as described in Ham and Wallace, *Meth. Enz.* (1979) 58:44, Barnes and Sato, *Anal. Biochem.* (1980) 102:255, U.S. Patent Nos. 4,767,704, 4,657,866, 4,927,762, 4,560,655, WO 90/103430, WO 87/00195, and U.S. RE 30,985.

10 Polynucleotide molecules comprising the polynucleotide sequence are propagated by placing the molecule in a vector. Viral and non-viral vectors are used, including plasmids. The choice of plasmid will depend on the type of cell in which propagation is desired and the purpose of propagation. Certain vectors are useful for amplifying and making large amounts of the desired DNA sequence. Other vectors are
15 suitable for expression in cells in culture. Still other vectors are suitable for transfer and expression in cells in a whole animal or person. The choice of appropriate vector is well within the skill of the art. Many such vectors are available commercially. The polynucleotide is inserted into a vector typically by means of DNA ligase attachment to a cleaved restriction enzyme site in the vector. Alternatively, the desired nucleotide
20 sequence may be inserted by homologous recombination in vivo. Typically this is accomplished by attaching regions of homology to the vector on the flanks of the desired nucleotide sequence. Regions of homology are added by ligation of oligonucleotides, or by polymerase chain reaction using primers comprising both the region of homology and a portion of the desired nucleotide sequence, for example.

25 Polynucleotides are linked to regulatory sequences as appropriate to obtain the desired expression properties. These may include promoters (attached either at the 5' end of the sense strand or at the 3' end of the antisense strand), enhancers, terminators, operators, repressors, and inducers. The promoters may be regulated or constitutive. In some situations it may be desirable to use conditionally active
30 promoters, such as tissue-specific or developmental stage-specific promoters. These are

linked to the desired nucleotide sequence using the techniques described above for linkage to vectors. Any techniques known in the art may be used.

When any of the above host cells, or other appropriate host cells or organisms, are used to replicate and/or express the polynucleotides or nucleic acids of the invention, the resulting replicated nucleic acid, RNA, expressed protein or polypeptide, is within the scope of the invention as a product of the host cell or organism. The product is recovered by any appropriate means known in the art.

Once the gene corresponding to the polypeptide is identified, its expression can be regulated in the cell to which the gene is native. For example, an endogenous gene of a cell can be regulated by an exogenous regulatory sequence as disclosed in U.S. Patent No. 5,641,670, "Protein Production and Protein Delivery."

Ribozymes

Trans-cleaving catalytic RNAs (ribozymes) are RNA molecules possessing endoribonuclease activity. Ribozymes are specifically designed for a particular target, and the target message must contain a specific nucleotide sequence. They are engineered to cleave any RNA species site-specifically in the background of cellular RNA. The cleavage event renders the mRNA unstable and prevents protein expression. Importantly, ribozymes can be used to inhibit expression of a gene of unknown function for the purpose of determining its function in an in vitro or in vivo context, by detecting the phenotypic effect.

One commonly used ribozyme motif is the hammerhead, for which the substrate sequence requirements are minimal. Design of the hammerhead ribozyme is disclosed in Usman *et al.*, *Current Opin. Struct. Biol.* (1996) 6:527-533. Usman also discusses the therapeutic uses of ribozymes. Ribozymes can also be prepared and used as described in Long *et al.*, *FASEB J.* (1993) 7:25; Symons, *Ann. Rev. Biochem.* (1992) 61:641; Perrotta *et al.*, *Biochem.* (1992) 31:16-17; Ojwang *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1992) 89:10802-10806; and U.S. Patent No. 5,254,678. Ribozyme cleavage of HIV-I RNA is described in U.S. Patent No. 5,144,019; methods of cleaving RNA using ribozymes is described in U.S. Patent No. 5,116,742; and methods for increasing the specificity of ribozymes are described in U.S. Patent No. 5,225,337 and Koizumi *et al.*,

Nucleic Acid Res. (1989) 17:7059-7071. Preparation and use of ribozyme fragments in a hammerhead structure are also described by Koizumi *et al.*, *Nucleic Acids Res.* (1989) 17:7059-7071. Preparation and use of ribozyme fragments in a hairpin structure are described by Chowrira and Burke, *Nucleic Acids Res.* (1992) 20:2835. Ribozymes can
5 also be made by rolling transcription as described in Daubendiek and Kool, *Nat. Biotechnol.* (1997) 15(3):273-277.

The hybridizing region of the ribozyme may be modified or may be prepared as a branched structure as described in Horn and Urdea, *Nucleic Acids Res.* (1989) 17:6959-67. The basic structure of the ribozymes may also be chemically
10 altered in ways familiar to those skilled in the art, and chemically synthesized ribozymes can be administered as synthetic oligonucleotide derivatives modified by monomeric units. In a therapeutic context, liposome mediated delivery of ribozymes improves cellular uptake, as described in Birikh *et al.*, *Eur. J. Biochem.* (1997) 245:1-16.

15 Therapeutic and functional genomic applications of ribozymes proceed beginning with knowledge of a portion of the coding sequence of the gene to be inhibited. Thus, for many genes, a polynucleotide sequence as disclosed herein provides adequate sequence for constructing an effective ribozyme. A target cleavage site is selected in the target sequence, and a ribozyme is constructed based on the 5' and
20 3' nucleotide sequences that flank the cleavage site. Retroviral vectors are engineered to express monomeric and multimeric hammerhead ribozymes targeting the mRNA of the target coding sequence. These monomeric and multimeric ribozymes are tested in vitro for an ability to cleave the target mRNA. A cell line is stably transduced with the retroviral vectors expressing the ribozymes, and the transduction is confirmed by
25 Northern blot analysis and reverse-transcription polymerase chain reaction (RT-PCR). The cells are screened for inactivation of the target mRNA by such indicators as reduction of expression of disease markers or reduction of the gene product of the target mRNA.

Antisense

Antisense nucleic acids are designed to specifically bind to RNA, resulting in the formation of RNA-DNA or RNA-RNA hybrids, with an arrest of DNA replication, reverse transcription or messenger RNA translation. Antisense polynucleotides based on a selected sequence can interfere with expression of the corresponding gene. Antisense polynucleotides are typically generated within the cell by expression from antisense constructs that contain the antisense EST strand as the transcribed strand. Antisense polynucleotides will bind and/or interfere with the translation of the corresponding mRNA. The expression products of control cells and cells treated with the antisense construct are compared to detect the protein product of the gene corresponding to the polynucleotide. The protein is isolated and identified using routine biochemical methods.

Antisense therapy for a variety of cancers is in clinical phase and has been discussed extensively in the literature. Reed reviewed antisense therapy directed at the Bcl-2 gene in tumors; gene transfer-mediated overexpression of Bcl-2 in tumor cell lines conferred resistance to many types of cancer drugs. (Reed, J.C., *N.C.I.* (1997) 89:988-990). The potential for clinical development of antisense inhibitors of *ras* is discussed by Cowser, L.M., *Anti-Cancer Drug Design* (1997) 12:359-371. Additional important antisense targets include leukemia (Geurtz, A.M., *Anti-Cancer Drug Design* (1997) 12:341-358); human C-ref kinase (Monia, B.P., *Anti-Cancer Drug Design* (1997) 12:327-339); and protein kinase C (McGraw *et al.*, *Anti-Cancer Drug Design* (1997) 12:315-326).

Given the extensive background literature and clinical experience in antisense therapy, one skilled in the art can use selected polynucleotides of the invention as additional potential therapeutics. The choice of polynucleotide can be narrowed by first testing them for binding to "hot spot" regions of the genome of cancerous cells. If a polynucleotide is identified as binding to a "hot spot", testing the polynucleotide as an antisense compound in the corresponding cancer cells clearly is warranted.

Ogunbiyi *et al.*, *Gastroenterology* (1997) 113(3):761-766 describe prognostic use of allelic loss in colon cancer; Barks *et al.*, *Genes, Chromosomes, and*

Cancer (1997) 19(4):278-285 describe increased chromosome copy number detected by FISH in malignant melanoma; Nishizake *et al.*, *Genes, Chromosomes, and Cancer* (1997) 19(4):267-272 describe genetic alterations in primary breast cancer and their metastases and direct comparison using modified comparative genome hybridization; and Elo *et al.*, *Cancer Research* (1997) 57(16):3356-3359 disclose that loss of heterozygosity at 16z24.1-q24.2 is significantly associated with metastatic and aggressive behavior of prostate cancer.

Dominant Negative Mutations

Dominant negative mutations are readily generated for corresponding proteins that are active as homomultimers. A mutant polypeptide will interact with wild-type polypeptides (made from the other allele) and form a non-functional multimer. Thus, a mutation is in a substrate-binding domain, a catalytic domain, or a cellular localization domain. Preferably, the mutant polypeptide will be overproduced. Point mutations are made that have such an effect. In addition, fusion of different polypeptides of various lengths to the terminus of a protein can yield dominant negative mutants. General strategies are available for making dominant negative mutants. See Herskowitz, *Nature* (1987) 329:219-222. Such a technique can be used for creating a loss of function mutation, which is useful for determining the function of a protein.

Identification of Secreted and Membrane-Bound Polypeptides

Both secreted and membrane-bound polypeptides of the present invention are of interest. For example, levels of secreted polypeptides can be assayed conveniently in body fluids, such as blood, urine, prostatic fluid and semen. Membrane-bound polypeptides are useful for constructing vaccine antigens or inducing an immune response. Such antigens would comprise all or part of the extracellular region of the membrane-bound polypeptides.

Because both secreted and membrane-bound polypeptides comprise a fragment of contiguous hydrophobic amino acids, hydrophobicity predicting algorithms can be used to identify such polypeptides.

A signal sequence is usually encoded by both secreted and membrane-bound polypeptide genes to direct a polypeptide to the surface of the cell. The signal

sequence usually comprises a stretch of hydrophobic residues. Such signal sequences can fold into helical structures.

Membrane-bound polypeptides typically comprise at least one transmembrane region that possesses a stretch of hydrophobic amino acids that can transverse the membrane. Some transmembrane regions also exhibit a helical structure.

Hydrophobic fragments within a polypeptide can be identified by using computer algorithms. Such algorithms include Hopp & Woods, Proc. Natl. Acad. Sci. USA 78: 3824-3828 (1981); Kyte & Doolittle, J. Mol. Biol. 157: 105-132 (1982); and RAOAR algorithm, Degli Esposti *et al.*, Eur. J. Biochem. 190: 207-219 (1990).

Another method of identifying secreted and membrane-bound polypeptides is to translate the present polynucleotides, SEQ ID NO:1-339, in all six frames and determine if at least 8 contiguous hydrophobic amino acids are present. Those translated polypeptides with at least 8; more typically, 10; even more typically, 12 contiguous hydrophobic amino acids are considered to be either a putative secreted or membrane bound polypeptide. Hydrophobic amino acids include alanine, glycine, histidine, isoleucine, leucine, lysine, methionine, phenylalanine, proline, threonine, tryptophan, tyrosine, and valine.

Putative secreted and/or membrane-bound polypeptides are encoded by the sequences of the following clones: SL-5, SL-6, SL-9, SL-11, SL-13, SL-90, SL-100, SL-107, SL-124, SL-135, SL-139, SL-143, SL-152, SL-153, SL-173, and SL-177.

Construction of Polypeptides of the Invention and Variants Thereof

The polypeptides of the invention include those encoded by the disclosed polynucleotides. These polypeptides can also be encoded by nucleic acids that, by virtue of the degeneracy of the genetic code, are not identical in sequence to the disclosed polynucleotides. Thus, the invention includes within its scope nucleic acids comprising polynucleotides encoding a protein or polypeptide expressed by a polynucleotide having the sequence of any one of SEQ ID NO:1-339. Also within the scope of the invention are variants; variants of polypeptides include mutants, fragments, and fusions. Mutants can include amino acid substitutions, additions or deletions. The amino acid substitutions can be conservative amino acid substitutions or substitutions to

eliminate non-essential amino acids, such as to alter a glycosylation site, a phosphorylation site or an acetylation site, or to minimize misfolding by substitution or deletion of one or more cysteine residues that are not necessary for function. Conservative amino acid substitutions are those that preserve the general charge, hydrophobicity/hydrophilicity, and/or steric bulk of the amino acid substituted. For example, substitutions between the following groups are conservative: Gly/Ala, Val/Ile/Leu, Asp/Glu, Lys/Arg, Asn/Gln, Ser/Cys, Thr, and Phe/Trp/Tyr.

Cysteine-depleted muteins are variants within the scope of the invention. These variants can be constructed according to methods disclosed in U.S. Patent No. 4,959,314, "Cysteine-Depleted Muteins of Biologically Active Proteins." The patent discloses how to substitute other amino acids for cysteines, and how to determine biological activity and effect of the substitution. Such methods are suitable for proteins according to this invention that have cysteine residues suitable for such substitutions, for example to eliminate disulfide bond formation.

The protein variants described herein are encoded by polynucleotides that are within the scope of the invention. The genetic code can be used to select the appropriate codons to construct the corresponding variants.

The invention encompasses polynucleotide sequences having at least 65% sequence identity to any one of SEQ ID NOs:1-339 as determined by the Smith-Waterman homology search algorithm as implemented in MSPRCH program (Oxford Molecular) using an affine gap search with the following search parameters: gap open penalty of 12, and gap extension penalty of 1.

Use of the Polynucleotides as Probes, in Mapping, and in Tissue Profiling

Probes

Polynucleotide probes comprising at least 12 contiguous nucleotides selected from the nucleotide sequence of a polynucleotide of SEQ ID NO:1-339 are used for a variety of purposes, including identification of human chromosomes and determining transcription levels.

The nucleotide probes are labeled, for example, with a radioactive, fluorescent, biotinylated, or chemiluminescent label, and detected by well known

methods appropriate for the particular label selected. Protocols for hybridizing nucleotide probes to preparations of metaphase chromosomes are also well known in the art. A nucleotide probe will hybridize specifically to nucleotide sequences in the chromosome preparations which are complementary to the nucleotide sequence of the probe. A probe that hybridizes specifically to a polynucleotide should provide a detection signal at least 5-, 10-, or 20-fold higher than the background hybridization provided with other unrelated sequences.

In a non-limiting example, commercial programs are available for identifying regions of chromosomes commonly associated with disease, such as cancer. Polynucleotides of the invention can be used to probe these regions. For example, if through profile searching a polynucleotide is identified as corresponding to a gene encoding a kinase, its ability to bind to a cancer-related chromosomal region will suggest its role as a kinase in one or more stages of tumor cell development/growth. Although some experimentation would be required to elucidate the role, the polynucleotide constitutes a new material for isolating a specific protein that has potential for developing a cancer diagnostic or therapeutic.

Nucleotide probes are used to detect expression of a gene corresponding to the polynucleotide. For example, in Northern blots, mRNA is separated electrophoretically and contacted with a probe. A probe is detected as hybridizing to an mRNA species of a particular size. The amount of hybridization is quantitated to determine relative amounts of expression, for example under a particular condition. Probes are also used to detect products of amplification by polymerase chain reaction. The products of the reaction are hybridized to the probe and hybrids are detected. Probes are used for in situ hybridization to cells to detect expression. Probes can also be used in vivo for diagnostic detection of hybridizing sequences. Probes are typically labeled with a radioactive isotope. Other types of detectable labels may be used such as chromophores, fluors, and enzymes.

Expression of specific mRNA can vary in different cell types and can be tissue specific. This variation of mRNA levels in different cell types can be exploited with nucleic acid probe assays to determine tissue types. For example, PCR, branched DNA probe assays, or blotting techniques utilizing nucleic acid probes substantially

identical or complementary to polynucleotides listed in the Sequence Listing can determine the presence or absence of cDNA or mRNA related to the polynucleotides of the invention.

Examples of a nucleotide hybridization assay are described in Urdea *et al.*, PCT WO92/02526 and Urdea *et al.*, U.S. Patent No. 5,124,246, both incorporated
5 herein by reference. The references describe an example of a sandwich nucleotide hybridization assay.

Alternatively, the Polymerase Chain Reaction (PCR) is another means for detecting small amounts of target nucleic acids, as described in Mullis *et al.*, *Meth. Enzymol.* (1987) 155:335-350; U.S. Patent No. 4,683,195; and U.S. Patent No. 4,683,202, all incorporated herein by reference. Two primer polynucleotides
10 nucleotides hybridize with the target nucleic acids and are used to prime the reaction. The primers may be composed of sequence within or 3' and 5' to the polynucleotides of the Sequence Listing. Alternatively, if the primers are 3' and 5' to these polynucleotides, they need not hybridize to them or the complements. A thermostable polymerase
15 creates copies of target nucleic acids from the primers using the original target nucleic acids as a template. After a large amount of target nucleic acids is generated by the polymerase, it is detected by methods such as Southern blots. When using the Southern blot method, the labeled probe will hybridize to a polynucleotide of the Sequence
20 Listing or complement.

Furthermore, mRNA or cDNA can be detected by traditional blotting techniques described in Sambrook *et al.*, "Molecular Cloning: A Laboratory Manual" (New York, Cold Spring Harbor Laboratory, 1989). mRNA or cDNA generated from
25 mRNA using a polymerase enzyme can be purified and separated using gel electrophoresis. The nucleic acids on the gel are then blotted onto a solid support, such as nitrocellulose. The solid support is exposed to a labeled probe and then washed to remove any unhybridized probe. Next, the duplexes containing the labeled probe are detected. Typically, the probe is labeled with radioactivity.

Mapping

Polynucleotides of the present invention are used to identify a chromosome on which the corresponding gene resides. Using fluorescence in situ hybridization (FISH) on normal metaphase spreads, comparative genomic hybridization
5 allows total genome assessment of changes in relative copy number of DNA sequences. See Schwartz and Samad, *Current Opinions in Biotechnology* (1994) 8:70-74; Kallioniemi *et al.*, *Seminars in Cancer Biology* (1993) 4:41-46; Valdes and Tagle, *Methods in Molecular Biology* (1997) 68:1, Boultonwood, ed., Human Press, Totowa, NJ.

Preparations of human metaphase chromosomes are prepared using
10 standard cytogenetic techniques from human primary tissues or cell lines. Nucleotide probes comprising at least 12 contiguous nucleotides selected from the nucleotide sequence shown in the Sequence Listing are used to identify the corresponding chromosome. The nucleotide probes are labeled, for example, with a radioactive, fluorescent, biotinylated, or chemiluminescent label, and detected by well known
15 methods appropriate for the particular label selected. Protocols for hybridizing nucleotide probes to preparations of metaphase chromosomes are also well known in the art. A nucleotide probe will hybridize specifically to nucleotide sequences in the chromosome preparations that are complementary to the nucleotide sequence of the probe. A probe that hybridizes specifically to a polynucleotide-related gene provides a
20 detection signal at least 5-, 10-, or 20-fold higher than the background hybridization provided with non-EST coding sequences.

Polynucleotides are mapped to particular chromosomes using, for example, radiation hybrids or chromosome-specific hybrid panels. See Leach *et al.*, *Advances in Genetics*, (1995) 33:63-99; Walter *et al.*, *Nature Genetics* (1994) 7:22-28;
25 Walter and Goodfellow, *Trends in Genetics* (1992) 9:352. Such mapping can be useful in identifying the function of the polynucleotide-related gene by its proximity to other genes with known function. Function can also be assigned to the related gene when particular syndromes or diseases map to the same chromosome.

Tissue Profiling

30 The polynucleotides of the present invention can be used to determine the tissue type from which a given sample is derived. For example, a metastatic lesion

is identified by its developmental organ or tissue source by identifying the expression of a particular marker of that organ or tissue. If a polynucleotide is expressed only in a specific tissue type, and a metastatic lesion is found to express that polynucleotide, then the developmental source of the lesion has been identified. Expression of a particular polynucleotide is assayed by detection of either the corresponding mRNA or the protein product. Immunological methods, such as antibody staining, are used to detect a particular protein product. Hybridization methods may be used to detect particular mRNA species, including but not limited to in situ hybridization and Northern blotting.

Use of Polymorphisms

A polynucleotide will be useful in forensics, genetic analysis, mapping, and diagnostic applications if the corresponding region of a gene is polymorphic in the human population. A particular polymorphic form of the polynucleotide may be used to either identify a sample as deriving from a suspect or rule out the possibility that the sample derives from the suspect. Any means for detecting a polymorphism in a gene are used, including but not limited to electrophoresis of protein polymorphic variants, differential sensitivity to restriction enzyme cleavage, and hybridization to an allele-specific probe.

Use of Polynucleotides to Raise Antibodies

Expression products of a polynucleotide, the corresponding mRNA or cDNA, or the corresponding complete gene are prepared and used for raising antibodies for experimental, diagnostic, and therapeutic purposes. The polynucleotide or related cDNA is expressed as described above, and antibodies are prepared. These antibodies are specific to an epitope on the polynucleotide-encoded polypeptide, and can precipitate or bind to the corresponding native protein in a cell or tissue preparation or in a cell-free extract of an in vitro expression system.

Immunogens for raising antibodies are prepared by mixing the polypeptides encoded by the polynucleotide of the present invention with adjuvants. Alternatively, polypeptides are made as fusion proteins to larger immunogenic proteins. Polypeptides are also covalently linked to other larger immunogenic proteins, such as keyhole limpet hemocyanin. Immunogens are typically administered intradermally,

subcutaneously, or intramuscularly. Immunogens are administered to experimental animals such as rabbits, sheep, and mice, to generate antibodies. Optionally, the animal spleen cells are isolated and fused with myeloma cells to form hybridomas which secrete monoclonal antibodies. Such methods are well known in the art. According to
5 another method known in the art, the polynucleotide is administered directly, such as by intramuscular injection, and expressed in vivo. The expressed protein generates a variety of protein-specific immune responses, including production of antibodies, comparable to administration of the protein.

Preparations of polyclonal and monoclonal antibodies specific for
10 polynucleotide-encoded proteins and polypeptides are made using standard methods known in the art. The antibodies specifically bind to epitopes present in the polypeptides encoded by polynucleotides disclosed in the Sequence Listing. Typically, at least 6, 8, 10, or 12 contiguous amino acids are required to form an epitope. However, epitopes which involve non-contiguous amino acids may require more, for
15 example at least 15, 25, or 50 amino acids. A short sequence of a polynucleotide may then be unsuitable for use as an epitope to raise antibodies for identifying the corresponding novel protein, because of the potential for cross-reactivity with a known protein. However, the antibodies may be useful for other purposes, particularly if they identify common structural features of a known protein and a novel polypeptide
20 encoded by a polynucleotide of the invention.

Antibodies that specifically bind to human polynucleotide-encoded polypeptides should provide a detection signal at least 5-, 10-, or 20-fold higher than a detection signal provided with other proteins when used in Western blots or other immunochemical assays. Preferably, antibodies that specifically bind polypeptides do
25 not detect other proteins in immunochemical assays and can immunoprecipitate EST-encoded proteins from solution. For such immunoassays, any type of samples can be used, including tissue, organs, cells, urine, blood, prostatic fluid or semen.

Of interest are antibodies to the secreted polypeptides encoded by the present polynucleotide sequences, SEQ ID NO:1-339. Antibodies to secreted
30 polypeptides can be used to test body fluids, such as blood, urine, prostatic fluid and semen.

To test for the presence of serum antibodies to the polypeptide in a human population, human antibodies are purified by methods well known in the art. Preferably, the antibodies are affinity purified by passing antiserum over a column to which a protein, polypeptide, or fusion protein is bound. The bound antibodies can then
5 be eluted from the column, for example using a buffer with a high salt concentration.

In addition to the antibodies discussed above, genetically engineered antibody derivatives are made, such as single chain antibodies or humanized antibodies.

Antibodies to the polypeptides encoded by one or more of SEQ ID NO:1-339 also are contemplated for therapeutic compositions and uses. For example,
10 antibodies directed to membrane-bound polypeptides that are up-regulated in cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations can be constructed. Antibodies can provide a useful therapeutic in inhibiting cell growth or inducing an immune reaction to cancer, tumor, or hyperproliferating cells. Typically, such antibodies are directed the extracellular
15 regions of the membrane-bound polypeptide. The borders of such regions can be determined by identifying the location of the hydrophobic transmembrane fragment(s) in the encoded polypeptides of the present invention.

Exemplary antibodies were prepared using two sequences from clone SL-5: H₂N-CGPRLPSFPCPTHEPSTGQLSK-CONH₂ and H₂N-CKDSQGLSDFKR-
20 NSRTTRRSYKCCONH₂. Using polyclonal antibodies raised against a mixture of these polypeptides, immunohistochemistry was performed on a variety of tumor tissues and corresponding normal tissue. The results are shown in Figure 3, and discussed in the Examples. These polypeptides are useful for detecting a higher level of expression of clone SL-5 in tumor tissues.

25 Use of Polynucleotides to Construct Arrays for Diagnostics

The present polynucleotide sequences and gene products are useful for determining the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations. Specifically, the polynucleotides and encoded polypeptides of the instant invention can be utilized to

determine the occurrence of prostatic disorders, such as BPH or localized prostate cancer.

A number of prostatic disorders exist, including adenocarcinoma, BPH, histologic prostate cancer, prostatic intraepithelial neoplasia, clinical prostate cancer, incidental prostate cancer, and localized prostate cancer. BPH is a common prostatic disorder in men which becomes clinically manifest usually after age fifty. In BPH, hyperplastic growth of prostatic cells in the periurethral glandular tissue in the central zone of the prostate gland cause an enlarged prostate which can compress or elongate the urethra and produce symptoms of urethral obstruction that may progress to urinary retention or to a constellation of symptoms known as prostatism. A host of physical manifestations can accompany prostatic disorders including: impotency, reduced urinary flow, hesitancy in initiating voiding, postvoid dribbling, a sensation of incomplete bladder emptying, and development of bladder or high urinary tract infections.

To determine the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations, the levels of polynucleotides and/or encoded polypeptides of the present invention in a sample are compared to the levels in a normal control of body tissues, cells, organs, or fluids. The normal control can include a pool of cells from a particular organ or tissue or tissues and/or cells from throughout the body. Either the immunoassays described above or the nucleic acid assays described below can be used for such measurements.

Any observed difference between the sample and normal control can indicate the occurrence of disease or disorder. Typically, if the levels of the polynucleotides and the encoded polypeptides of the present invention are higher than those found in the normal control, the results indicate the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations.

In addition, the present polynucleotides can be useful to diagnose the severity as well as the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations, including prostatic disorders. For example, the greater the difference observed in the sample versus the

normal control of the present polynucleotides or encoded polypeptides, the greater the severity of the disorder, in particular, when higher levels as compared to a normal control are observed.

The present polynucleotides, as shown in SEQ ID NO:1-339, were
5 expressed at higher levels in a prostate cancer cell line versus a normal prostate epithelial cell line.

Polynucleotide arrays provide a high throughput technique that can assay a large number of polynucleotide sequences in a sample. This technology can be used as a diagnostic and as a tool to test for differential expression to determine function of
10 an encoded protein.

To create arrays, polynucleotide probes are spotted onto a substrate in a two-dimensional matrix or array. Samples of polynucleotides can be labeled and then hybridized to the probes. Double stranded polynucleotides, comprising the labeled sample polynucleotides bound to probe polynucleotides, can be detected once the
15 unbound portion of the sample is washed away.

The probe polynucleotides can be spotted on substrates including glass, nitrocellulose, etc. The probes can be bound to the substrate by either covalent bonds or by non-specific interactions, such as hydrophobic interactions. The sample polynucleotides can be labeled using radioactive labels, fluorophors, etc.

20 Techniques for constructing arrays and methods of using these arrays are described in EP No. 0 799 897; PCT No. WO 97/29212; PCT No. WO 97/27317; EP No. 0 785 280; PCT No. WO 97/02357; U.S. Pat. No. 5,593,839; U.S. Pat. No. 5,578,832; EP No. 0 728 520; U.S. Pat. No. 5,599,695; EP No. 0 721 016; U.S. Pat. No. 5,556,752; PCT No. WO 95/22058; and U.S. Pat. No. 5,631,734.

25 Further, arrays can be used to examine differential expression of genes and can be used to determine gene function. For example, arrays of the instant polynucleotide sequences can be used to determine if any of the EST sequences are differentially expressed between normal cells and cancer cells, for example. High expression of a particular message in a cancer cell, which is not observed in a
30 corresponding normal cell, can indicate a cancer specific protein.

Differential Expression

The present invention also provides a method to identify abnormal or diseased tissue in a human. For polynucleotides corresponding to profiles of protein families as described above, the choice of tissue may be dictated by the putative
5 biological function. The expression of a gene corresponding to a specific polynucleotide is compared between a first tissue that is suspected of being diseased and a second, normal tissue of the human. The normal tissue is any tissue of the human, especially those that express the polynucleotide-related gene including, but not limited to, brain, thymus, testis, heart, prostate, placenta, spleen, small intestine, skeletal
10 muscle, pancreas, and the mucosal lining of the colon.

The polynucleotide-related genes in the two tissues are compared by any means known in the art. For example, the two genes are sequenced, and the sequence of the gene in the tissue suspected of being diseased is compared with the gene sequence in the normal tissue. The polynucleotide-related genes, or portions thereof, in the two
15 tissues are amplified, for example using nucleotide primers based on the nucleotide sequence shown in the Sequence Listing, using the polymerase chain reaction. The amplified genes or portions of genes are hybridized to nucleotide probes selected from the same nucleotide sequence shown in the Sequence Listing. A difference in the nucleotide sequence of the polynucleotide-related gene in the tissue suspected of being
20 diseased compared with the normal nucleotide sequence suggests a role of the polynucleotide-encoded proteins in the disease, and provides a lead for preparing a therapeutic agent. The nucleotide probes are labeled by a variety of methods, such as radiolabeling, biotinylation, or labeling with fluorescent or chemiluminescent tags, and detected by standard methods known in the art.

25 Alternatively, polynucleotide-related mRNA in the two tissues is compared. PolyA⁺ RNA is isolated from the two tissues as is known in the art. For example, one of skill in the art can readily determine differences in the size or amount of polynucleotide-related mRNA transcripts between the two tissues using Northern blots and nucleotide probes selected from the nucleotide sequence shown in the
30 Sequence Listing. Increased or decreased expression of an polynucleotide-related mRNA in a tissue sample suspected of being diseased, compared with the expression of

the same polynucleotide-related mRNA in a normal tissue, suggests that the expressed protein has a role in the disease, and also provides a lead for preparing a therapeutic agent.

Any method for analyzing proteins is used to compare two
5 polynucleotide-encoded proteins from matched samples. The sizes of the proteins in the two tissues are compared, for example, using antibodies of the present invention to detect polynucleotide-encoded proteins in Western blots of protein extracts from the two tissues. Other changes, such as expression levels and subcellular localization, can also be detected immunologically, using antibodies to the corresponding protein. A
10 higher or lower level of polynucleotide-encoded protein expression in a tissue suspected of being diseased, compared with the same polynucleotide-encoded protein expression level in a normal tissue, is indicative that the expressed protein has a role in the disease, and provides another lead for preparing a therapeutic agent.

Similarly, comparison of polynucleotide gene sequences or of
15 polynucleotide gene expression products, e.g., mRNA and protein, between a human tissue that is suspected of being diseased and a normal tissue of a human, are used to follow disease progression or remission in the human. Such comparisons of polynucleotide-related genes, mRNA, or protein are made as described above.

For example, increased or decreased expression of the polynucleotide-
20 related gene in the tissue suspected of being neoplastic can indicate the presence of neoplastic cells in the tissue. The degree of increased expression of the polynucleotide gene in the neoplastic tissue relative to expression of the gene in normal tissue, or differences in the amount of increased expression of the polynucleotide gene in the neoplastic tissue over time, is used to assess the progression of the neoplasia in that
25 tissue or to monitor the response of the neoplastic tissue to a therapeutic protocol over time. The expression pattern of any two cell types can be compared, such as low and high metastatic tumor cell lines, or cells from tissue which have and have not been exposed to a therapeutic agent.

Screening for Peptide Analogs and Antagonists

Polypeptides encoded by the instant polynucleotides and corresponding full length genes can be used to screen peptide libraries to identify binding partners, such as receptors, from among the encoded polypeptides.

5 Such binding partners can be useful in treating cancer, tumor progression, hyperproliferative cell growth, and/or accompanying biological or physical manifestations. For example, peptides or other compounds that are capable of binding or interacting with membrane-bound polypeptides encoded by one or more of SEQ ID NO:1-339, can be useful as a therapeutic. Also, peptides or other compounds capable of
10 altering the conformation of any of the encoded polypeptides by one or more of SEQ ID NO:1-339 can inhibit biological activity and be useful as a therapeutic.

A library of peptides may be synthesized following the methods disclosed in U.S. Pat. No. 5,010,175, and in PCT WO91/17823.

Peptide agonists or antagonists are screened using any available method,
15 such as signal transduction, antibody binding, receptor binding, mitogenic assays, chemotaxis assays, etc. The methods described herein are presently preferred. The assay conditions ideally should resemble the conditions under which the native activity is exhibited *in vivo*, that is, under physiologic pH, temperature, and ionic strength. Suitable agonists or antagonists will exhibit strong inhibition or enhancement of the
20 native activity at concentrations that do not cause toxic side effects in the subject. Agonists or antagonists that compete for binding to the native polypeptide may require concentrations equal to or greater than the native concentration, while inhibitors capable of binding irreversibly to the polypeptide may be added in concentrations on the order of the native concentration.

25 The end results of such screening and experimentation will be at least one novel polypeptide binding partner, such as a receptor, encoded by a cDNA polynucleotide or gene of the invention, and at least one peptide agonist or antagonist of the novel binding partner. Such agonists and antagonists can be used to modulate, enhance, or inhibit receptor function in cells to which the receptor is native, or in cells
30 that possess the receptor as a result of genetic engineering. Further, if the novel receptor shares biologically important characteristics with a known receptor,

information about agonist/antagonist binding may help in developing improved agonists/antagonists of the known receptor.

Therapeutics, whether polynucleotide or polypeptide or small molecule, can be tested, for example, in the mouse tumor assay described in Pei *et al.*, Mol. Endo. 5 11: 433-441 (1997).

Other models for testing polynucleotides, polypeptides, antibodies, or small molecules useful for treatment include: animal models and cell lines disclosed in Bosland, *Encyclopedia of Cancer*, Volume II, pages 1283 to 1296 (1997) by Academic Press. Other useful cell lines are described in Brothman, *Encyclopedia of Cancer*, 10 Volume II, pages 1303 to 1313 (1997) by Academic Press

Pharmaceutical Compositions and Therapeutic Uses

Pharmaceutical compositions can comprise polypeptides, antibodies, or polynucleotides of the claimed invention. The pharmaceutical compositions will comprise a therapeutically effective amount of either polypeptides, antibodies, or 15 polynucleotides of the claimed invention.

The term "therapeutically effective amount" as used herein refers to an amount of a therapeutic agent to treat, ameliorate, or prevent a desired disease or condition, or to exhibit a detectable therapeutic or preventative effect. The effect can be detected by, for example, chemical markers or antigen levels. Therapeutic effects also 20 include reduction in physical symptoms, such as decreased body temperature. The precise effective amount for a subject will depend upon the subject's size and health, the nature and extent of the condition, and the therapeutics or combination of therapeutics selected for administration. Thus, it is not useful to specify an exact effective amount in advance. However, the effective amount for a given situation can be determined by 25 routine experimentation and is within the judgment of the clinician. Specifically, the compositions of the present invention can be used to treat, ameliorate, modulate, or prevent cancer, tumor progression, hyperproliferative cell growth and/or accompanying biological or physical manifestations, including prostatic disorders.

For purposes of the present invention, an effective dose will be from about 0.01 mg/kg to 50 mg/kg or 0.05 mg/kg to about 10 mg/kg of the polynucleotide, polypeptide or antibody compositions in the individual to which it is administered.

A pharmaceutical composition can also contain a pharmaceutically acceptable carrier. The term "pharmaceutically acceptable carrier" refers to a carrier for administration of a therapeutic agent, such as antibodies or a polypeptide, genes, and other therapeutic agents. The term refers to any pharmaceutical carrier that does not itself induce the production of antibodies harmful to the individual receiving the composition, and which may be administered without undue toxicity. Suitable carriers may be large, slowly metabolized macromolecules such as proteins, polysaccharides, polylactic acids, polyglycolic acids, polymeric amino acids, amino acid copolymers, and inactive virus particles. Such carriers are well known to those of ordinary skill in the art.

Pharmaceutically acceptable salts can be used therein, for example, mineral acid salts such as hydrochlorides, hydrobromides, phosphates, sulfates, and the like; and the salts of organic acids such as acetates, propionates, malonates, benzoates, and the like. A thorough discussion of pharmaceutically acceptable excipients is available in *Remington's Pharmaceutical Sciences* (Mack Pub. Co., N.J. 1991).

Pharmaceutically acceptable carriers in therapeutic compositions may contain liquids such as water, saline, glycerol and ethanol. Additionally, auxiliary substances, such as wetting or emulsifying agents, pH buffering substances, and the like, may be present in such vehicles. Typically, the therapeutic compositions are prepared as injectables, either as liquid solutions or suspensions; solid forms suitable for solution in, or suspension in, liquid vehicles prior to injection may also be prepared. Liposomes are included within the definition of a pharmaceutically acceptable carrier.

Delivery Methods

Once formulated, the polynucleotide compositions of the invention can be (1) administered directly to the subject; (2) delivered ex vivo, to cells derived from the subject; or (3) delivered in vitro for expression of recombinant proteins.

Direct delivery of the compositions will generally be accomplished by injection, either subcutaneously, intraperitoneally, intravenously or intramuscularly, or delivered to the interstitial space of a tissue. The compositions can also be administered into a tumor or lesion. Other modes of administration include oral and pulmonary administration, suppositories, and transdermal applications, needles, and gene guns or hyposprays. Dosage treatment may be a single dose schedule or a multiple dose schedule.

Methods for the ex vivo delivery and reimplantation of transformed cells into a subject are known in the art and described in e.g., International Publication No. WO 93/14778. Examples of cells useful in ex vivo applications include, for example, stem cells, particularly hematopoietic, lymph cells, macrophages, dendritic cells, or tumor cells.

Generally, delivery of nucleic acids for both ex vivo and in vitro applications can be accomplished by, for example, dextran-mediated transfection, calcium phosphate precipitation, polybrene mediated transfection, protoplast fusion, electroporation, encapsulation of the polynucleotide(s) in liposomes, and direct microinjection of the DNA into nuclei, all well known in the art.

If a polynucleotide-related gene correlates with a proliferative disorder, such as neoplasia, dysplasia, and hyperplasia, the disorder may be amenable to treatment by administration of a therapeutic agent based on the polynucleotide or corresponding polypeptide.

Preparation of antisense polypeptides is discussed above. Neoplasias that are treated with the antisense composition include, but are not limited to, cervical cancers, melanomas, colorectal adenocarcinomas, Wilms' tumor, retinoblastoma, sarcomas, myosarcomas, lung carcinomas, leukemias, such as chronic myelogenous leukemia, promyelocytic leukemia, monocytic leukemia, and myeloid leukemia, and lymphomas, such as histiocytic lymphoma. Proliferative disorders that are treated with the therapeutic composition include disorders such as anhydric hereditary ectodermal dysplasia, congenital alveolar dysplasia, epithelial dysplasia of the cervix, fibrous dysplasia of bone, and mammary dysplasia. Hyperplasias, for example, endometrial, adrenal, breast, prostate, or thyroid hyperplasias or pseudoepitheliomatous hyperplasia

of the skin, are treated with antisense therapeutic compositions. Even in disorders in which mutations in the corresponding gene are not implicated, downregulation or inhibition of gene expression can have therapeutic application. For example, decreasing gene expression can help to suppress tumors in which enhanced expression of the gene is implicated.

Both the dose of the antisense composition and the means of administration are determined based on the specific qualities of the therapeutic composition, the condition, age, and weight of the patient, the progression of the disease, and other relevant factors. Administration of the therapeutic antisense agents of the invention includes local or systemic administration, including injection, oral administration, particle gun or catheterized administration, and topical administration. Preferably, the therapeutic antisense composition contains an expression construct comprising a promoter and a polynucleotide segment of at least 12, 22, 25, 30, or 35 contiguous nucleotides of the antisense strand. Within the expression construct, the polynucleotide segment is located downstream from the promoter, and transcription of the polynucleotide segment initiates at the promoter.

Various methods are used to administer the therapeutic composition directly to a specific site in the body. For example, a small metastatic lesion is located and the therapeutic composition injected several times in several different locations within the body of tumor. Alternatively, arteries which serve a tumor are identified, and the therapeutic composition injected into such an artery, in order to deliver the composition directly into the tumor. A tumor that has a necrotic center is aspirated and the composition injected directly into the now empty center of the tumor. The antisense composition is directly administered to the surface of the tumor, for example, by topical application of the composition. X-ray imaging is used to assist in certain of the above delivery methods.

Receptor-mediated targeted delivery of therapeutic compositions containing an antisense polynucleotide, subgenomic polynucleotides, or antibodies to specific tissues is also used. Receptor-mediated DNA delivery techniques are described in, for example, Findeis *et al.*, *Trends in Biotechnol.* (1993) 11:202-205; Chiou *et al.*, (1994) *Gene Therapeutics: Methods And Applications Of Direct Gene Transfer* (J.A.

Wolff, ed.); Wu & Wu, *J. Biol. Chem.* (1988) 263:621-24; Wu *et al.*, *J. Biol. Chem.* (1994) 269:542-46; Zenke *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1990) 87:3655-59; Wu *et al.*, *J. Biol. Chem.* (1991) 266:339-42. Preferably, receptor-mediated targeted delivery of therapeutic compositions containing antibodies of the invention is used to
5 deliver the antibodies to specific tissue.

Therapeutic compositions containing antisense subgenomic polynucleotides are administered in a range of about 100 ng to about 200 mg of polynucleotides for local administration in a gene therapy protocol. Concentration ranges of about 500 ng to about 50 mg, about 1 µg to about 2 mg, about 5 µg to about
10 500 µg, and about 20 µg to about 100 µg of polynucleotides can also be used during a gene therapy protocol. Factors such as method of action and efficacy of transformation and expression are considerations which will affect the dosage required for ultimate efficacy of the antisense subgenomic polynucleotides. Where greater expression is desired over a larger area of tissue, larger amounts of EST antisense subgenomic
15 polynucleotides or the same amounts readministered in a successive protocol of administrations, or several administrations to different adjacent or close tissue portions of, for example, a tumor site, may be required to effect a positive therapeutic outcome. In all cases, routine experimentation in clinical trials will determine specific ranges for optimal therapeutic effect. A more complete description of gene therapy vectors,
20 especially retroviral vectors, is contained in U.S. Serial No. 08/869,309, which is expressly incorporated herein, and in section G below.

For genes encoding polypeptides or proteins with anti-inflammatory activity, suitable use, doses, and administration are described in U.S. Patent No. 5,654,173, incorporated herein by reference. Therapeutic agents also include antibodies
25 to proteins and polypeptides, as described in U.S. Patent No. 5,654,173.

Gene Therapy

The therapeutic polynucleotides and polypeptides of the present invention may be utilized in gene delivery vehicles. The gene delivery vehicle may be of viral or non-viral origin (see generally, Jolly, *Cancer Gene Therapy* (1994) 1:51-64;
30 Kimura, *Human Gene Therapy* (1994) 5:845-852; Connelly, *Human Gene Therapy*

(1995) 1:185-193; and Kaplitt, *Nature Genetics* (1994) 6:148-153). Gene therapy vehicles for delivery of constructs including a coding sequence of a therapeutic of the invention can be administered either locally or systemically. These constructs can utilize viral or non-viral vector approaches. Expression of such coding sequences can
5 be induced using endogenous mammalian or heterologous promoters. Expression of the coding sequence can be either constitutive or regulated.

The present invention can employ recombinant retroviruses which are constructed to carry or express a selected nucleic acid molecule of interest. Retrovirus vectors that can be employed include those described in EP 0 415 731; WO 90/07936;
10 WO 94/03622; WO 93/25698; WO 93/25234; U.S. Patent No. 5, 219,740; WO 93/11230; WO 93/10218; Vile and Hart, *Cancer Res.* (1993) 53:3860-3864; Vile and Hart, *Cancer Res.* (1993) 53:962-967; Ram et al., *Cancer Res.* (1993) 53:83-88; Takamiya et al., *J. Neurosci. Res.* (1992) 33:493-503; Baba et al., *J. Neurosurg.* (1993) 79:729-735; U.S. Patent no. 4,777,127; GB Patent No. 2,200,651; and EP 0 345 242.
15 Preferred recombinant retroviruses include those described in WO 91/02805.

Packaging cell lines suitable for use with the above-described retroviral vector constructs may be readily prepared (see PCT publications WO 95/30763 and WO 92/05266), and used to create producer cell lines (also termed vector cell lines) for the production of recombinant vector particles. Within particularly preferred embodiments
20 of the invention, packaging cell lines are made from human (such as HT1080 cells) or mink parent cell lines, thereby allowing production of recombinant retroviruses that can survive inactivation in human serum.

The present invention also employs alphavirus-based vectors that can function as gene delivery vehicles. Such vectors can be constructed from a wide variety
25 of alphaviruses, including, for example, Sindbis virus vectors, Semliki forest virus (ATCC VR-67; ATCC VR-1247), Ross River virus (ATCC VR-373; ATCC VR-1246) and Venezuelan equine encephalitis virus (ATCC VR-923; ATCC VR-1250; ATCC VR 1249; ATCC VR-532). Representative examples of such vector systems include those described in U.S. Patent Nos. 5,091,309; 5,217,879; and 5,185,440; and PCT
30 Publication Nos. WO 92/10578; WO 94/21792; WO 95/27069; WO 95/27044; and WO 95/07994.

Gene delivery vehicles of the present invention can also employ parvovirus such as adeno-associated virus (AAV) vectors. Representative examples include the AAV vectors disclosed by Srivastava in WO 93/09239, Samulski et al., *J. Vir.* (1989) 63:3822-3828; Mendelson et al., *Virol.* (1988) 166:154-165; and Flotte et al., *PNAS* (1993) 90:10613-10617.

Representative examples of adenoviral vectors include those described by Berkner, *Biotechniques* (1988) 6:616-627; Rosenfeld et al., *Science* (1991) 252:431-434; WO 93/19191; Kolls et al., *PNAS* (1994) 91:215-219; Kass-Eisler et al., *PNAS* (1993) 90:11498-11502; Guzman et al., *Circulation* (1993) 88:2838-2848; Guzman et al., *Cir. Res.* (1993) 73:1202-1207; Zabner et al., *Cell* (1993) 75:207-216; Li et al., *Hum. Gene Ther.* (1993) 4:403-409; Cailaud et al., *Eur. J. Neurosci.* (1993) 5:1287-1291; Vincent et al., *Nat. Genet.* (1993) 5:130-134; Jaffe et al., *Nat. Genet.* (1992) 1:372-378; and Levrero et al., *Gene* (1991) 101:195-202. Exemplary adenoviral gene therapy vectors employable in this invention also include those described in WO 94/12649, WO 93/03769; WO 93/19191; WO 94/28938; WO 95/11984 and WO 95/00655. Administration of DNA linked to killed adenovirus as described in Curiel, *Hum. Gene Ther.* (1992) 3:147-154 may be employed.

Other gene delivery vehicles and methods may be employed, including polycationic condensed DNA linked or unlinked to killed adenovirus alone, for example Curiel, *Hum. Gene Ther.* (1992) 3:147-154; ligand linked DNA, for example see Wu, *J. Biol. Chem.* (1989) 264:16985-16987; eukaryotic cell delivery vehicles cells, for example see U.S. Serial No. 08/240,030, filed May 9, 1994, and U.S. Serial No. 08/404,796; deposition of photopolymerized hydrogel materials; hand-held gene transfer particle gun, as described in U.S. Patent No. 5,149,655; ionizing radiation as described in U.S. Patent No. 5,206,152 and in WO92/11033; nucleic charge neutralization or fusion with cell membranes. Additional approaches are described in Philip, *Mol. Cell Biol.* (1994) 14:2411-2418, and in Woffendin, *Proc. Natl. Acad. Sci.* (1994) 91:1581-1585.

Naked DNA may also be employed. Exemplary naked DNA introduction methods are described in WO 90/11092 and U.S. Patent No. 5,580,859.

Further non-viral delivery suitable for use includes mechanical delivery systems such as the approach described in Woffendin *et al.*, *Proc. Natl. Acad. Sci. USA* (1994) 91(24):11581-11585.

Computer-Related Embodiments

5 In general, a library of polynucleotides is a collection of sequence information, which information is provided in either biochemical form (*e.g.*, as a collection of polynucleotide molecules), or in electronic form (*e.g.*, as a collection of polynucleotide sequences stored in a computer-readable form, as in a computer system and/or as part of a computer program). The sequence information of the
10 polynucleotides can be used in a variety of ways, *e.g.*, as a resource for gene discovery, as a representation of sequences expressed in a selected cell type (*e.g.*, cell type markers), and/or as markers of a given disease or disease state. In general, a disease marker is a representation of a gene product that is present in all cells affected by disease either at an increased or decreased level relative to a normal cell (*e.g.*, a cell of
15 the same or similar type that is not substantially affected by disease).

The nucleotide sequence information of the library can be embodied in any suitable form, *e.g.*, electronic or biochemical forms. For example, a library of sequence information embodied in electronic form comprises an accessible computer data file (or, in biochemical form, a collection of nucleic acid molecules) that contains
20 the representative nucleotide sequences of genes that are differentially expressed (*e.g.*, overexpressed or underexpressed) as between, for example, a cancerous cell and a normal cell. Biochemical embodiments of the library include a collection of nucleic acids that have the sequences of the genes in the library, where the nucleic acids can correspond to the entire gene in the library or to a fragment thereof, as described in
25 greater detail below.

The polynucleotide libraries of the subject invention generally comprise sequence information of a plurality of polynucleotide sequences, where at least one of the polynucleotides has a sequence of any of SEQ ID NOs:1-339. By plurality is meant at least 2, usually at least 3 and can include up to all of SEQ ID NOs:1-339. The length
30 and number of polynucleotides in the library will vary with the nature of the library,

e.g., if the library is an oligonucleotide array, a cDNA array, a computer database of the sequence information, etc.

Where the library is an electronic library, the nucleic acid sequence information can be present in a variety of media. "Media" refers to a manufacture,
5 other than an isolated nucleic acid molecule, that contains the sequence information of the present invention. Such a manufacture provides the genome sequence or a subset thereof in a form that can be examined by means not directly applicable to the sequence as it exists in a nucleic acid. For example, the nucleotide sequence of the present invention, *e.g.*, the nucleic acid sequences of any of the polynucleotides of SEQ ID
10 NOs:1-339, can be recorded on computer readable media, *e.g.*, any medium that can be read and accessed directly by a computer. Such media include, but are not limited to: magnetic storage media, such as a floppy disc, a hard disc storage medium, and a magnetic tape; optical storage media such as CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage
15 media. One of skill in the art can readily appreciate how any of the presently known computer readable mediums can be used to create a manufacture comprising a recording of the present sequence information. "Recorded" refers to a process for storing information on computer readable medium, using any such methods as known in the art. Any convenient data storage structure can be chosen, based on the means used to access
20 the stored information. A variety of data processor programs and formats can be used for storage, *e.g.*, word processing text file, database format, *etc.* In addition to the sequence information, electronic versions of the libraries of the invention can be provided in conjunction or connection with other computer-readable information and/or other types of computer-readable files (*e.g.*, searchable files, executable files, *etc.*,
25 including, but not limited to, for example, search program software, *etc.*).

By providing the nucleotide sequence in computer readable form, the information can be accessed for a variety of purposes. Computer software to access sequence information is publicly available. For example, the BLAST (Altschul et al., *supra.*) and BLAZE (Brutlag et al. *Comp. Chem.* (1993) 17:203) search algorithms on a
30 Sybase system can be used to identify open reading frames (ORFs) within the genome that contain homology to ORFs from other organisms.

As used herein, "a computer-based system" refers to the hardware means, software means, and data storage means used to analyze the nucleotide sequence information of the present invention. The minimum hardware of the computer-based systems of the present invention comprises a central processing unit (CPU), input
5 means, output means, and data storage means. A skilled artisan can readily appreciate that any one of the currently available computer-based system are suitable for use in the present invention. The data storage means can comprise any manufacture comprising a recording of the present sequence information as described above, or a memory access means that can access such a manufacture.

10 "Search means" refers to one or more programs implemented on the computer-based system, to compare a target sequence or target structural motif, or expression levels of a polynucleotide in a sample, with the stored sequence information. Search means can be used to identify fragments or regions of the genome that match a particular target sequence or target motif. A variety of known algorithms are publicly
15 known and commercially available, *e.g.*, MacPattern (EMBL), BLASTN and BLASTX (NCBI). A "target sequence" can be any polynucleotide or amino acid sequence of six or more contiguous nucleotides or two or more amino acids, preferably from about 10 to 100 amino acids or from about 30 to 300 nt. A variety of comparing means can be used to accomplish comparison of sequence information from a sample (*e.g.*, to analyze
20 target sequences, target motifs, or relative expression levels) with the data storage means. A skilled artisan can readily recognize that any one of the publicly available homology search programs can be used as the search means for the computer based systems of the present invention to accomplish comparison of target sequences and motifs. Computer programs to analyze expression levels in a sample and in controls are
25 also known in the art.

A "target structural motif," or "target motif," refers to any rationally selected sequence or combination of sequences in which the sequence(s) are chosen based on a three-dimensional configuration that is formed upon the folding of the target motif, or on consensus sequences of regulatory or active sites. There are a variety of
30 target motifs known in the art. Protein target motifs include, but are not limited to, enzyme active sites and signal sequences. Nucleic acid target motifs include, but are

not limited to, hairpin structures, promoter sequences and other expression elements such as binding sites for transcription factors.

A variety of structural formats for the input and output means can be used to input and output the information in the computer-based systems of the present invention. One format for an output means ranks the relative expression levels of different polynucleotides. Such presentation provides a skilled artisan with a ranking of relative expression levels to determine a gene expression profile..

As discussed above, the "library" of the invention also encompasses biochemical libraries of the polynucleotides of SEQ ID NOs:1-339, *e.g.*, collections of nucleic acids representing the provided polynucleotides. The biochemical libraries can take a variety of forms, *e.g.*, a solution of cDNAs, a pattern of probe nucleic acids stably associated with a surface of a solid support (*i.e.*, an array) and the like. Of particular interest are nucleic acid arrays in which one or more of SEQ ID NOs:1-339 is represented on the array. By array is meant a an article of manufacture that has at least a substrate with at least two distinct nucleic acid targets on one of its surfaces, where the number of distinct nucleic acids can be considerably higher, typically being at least 10 nt, usually at least 20 nt and often at least 25 nt. A variety of different array formats have been developed and are known to those of skill in the art. The arrays of the subject invention find use in a variety of applications, including gene expression analysis, drug screening, mutation analysis and the like, as disclosed in the above-listed exemplary patent documents.

In addition to the above nucleic acid libraries, analogous libraries of polypeptides are also provided, where the where the polypeptides of the library will represent at least a portion of the polypeptides encoded by SEQ ID NOs:1-339.

The present invention will now be illustrated by reference to the following examples which set forth particularly advantageous embodiments. However, it should be noted that these embodiments are illustrative and are not to be construed as restricting the invention in any way.

EXAMPLES

EXAMPLE 1

ISOLATION OF THE POLYNUCLEOTIDES

cDNA libraries were prepared from PrEC, normal human prostate
5 epithelial cells, and LNCaP, a cell line derived from human lymph node metastasized
prostate cancer. PrEC cells are available from Clonetics, San Diego, California, U.S.A.
LNCaP cells are available from the ATCC, Manassas, Virginia, U.S.A.

Using a PCR technique and reagents available from Clontech, Palo Alto,
California, USA (CLONTECH PCR-Select™), mRNA up-regulated in LNCaP was
10 captured and amplified. The captured polynucleotide inserts were inserted in the
pCR2.1 vector, available from Invitrogen, Carlsbad, California, U.S.A. The vectors
with the inserts were transformed into *E. coli* cells.

EXAMPLE 2

CONFIRMATION OF DIFFERENTIAL DISPLAY

15 Ten clones were chosen at random, and up-regulation of the sequences of
these clone inserts in LNCaP versus PrEC cells was confirmed by Northern blot. Dot
blots were performed on 168 clones and up-regulation was confirmed.

Further, sequencing of the clones showed that prostate specific antigen
(PSA) and prostate specific membrane antigen (PSMA) sequences were isolated by the
20 process described in Example 1. A good correlation between increased serum PSA
levels and prostate tumors has been observed. PSMA, a cell surface antigen, is another
observed marker for prostate cancer. See Bosland, Encyclopedia of Cancer, Volume II,
pages 1283-1296 (1997), Academic Press. Thus, the data confirm that up-regulated
mRNA characteristic of gene expression in prostate cancer was cloned by the method of
25 Example 1.

EXAMPLE 3

POLYNUCLEOTIDE SEQUENCES

The sequence results are shown in SEQ ID NO:1-339. For the sequencing experiments, each clone was named SL-1 to SL-209. Inserts from some of the clones were sequenced more than once. Each sequence was designated a unique combination of two names. This unique combination is shown in Table 1 in columns 2 and 3, denoted as "Sequence Name" and "Other Seq Name."

Table 1 indicates all the sequences that correspond to each clone. Thus, all the sequences corresponding to clone SL-3, for example, are grouped together in Table 1.

Clones also were assigned cluster numbers. See column 4 of Table 1. Clones with the same cluster number generally comprise sequence derived from the same mRNA transcripts.

The last column of Table 1 indicates the nearest neighbor as determined by an alignment to sequences in a publicly available database.

A consensus for the sequence of each clone can be constructed by aligning the corresponding sequences or reverse complements thereof. Table 1 lists the names of all the sequences that correspond to each clone, and Table 2 shows the specific sequence that corresponds to each unique combination of Sequence Name and/or "Other Seq. Name."

The entire insert of some clones may not be represented by the sequences presented in Table 2. For example, the 5' and 3' ends of a clone insert may have been sequenced, but the sequences do not overlap. Additional sequence corresponding to the clone insert can be isolated and determined by constructing probes or primers from the sequences presented in Table 2 and a library of mRNA or cDNA from a prostate cell or prostate cancer cell line using the methods described above.

EXAMPLE 4

RESULTS OF PUBLIC DATABASE SEARCH

Both the nucleotide sequence and translations of masked sequences shown in the Sequence Listing were aligned with individual sequences that were publicly available. Similarity with individual sequences is used to determine the activity of the polypeptides encoded by genes corresponding to the sequences referred to in Table 2.

The sequences in SEQ ID NO:1-333 first were masked to remove the pCR2.1 vector sequences. Masking was performed by aligning the pCR2.1 sequences with each of SEQ ID NO:1-333 using the BLASTN program. Any sequence that produced an alignment with a score of less than 0.1 was masked.

A BLASTN vs. Genbank search was performed using the masked sequences with search parameters of greater than 99% overlap, 99% identity, and a p value of less than 1×10^{-40} and this resulted in discard of sequences. Sequences from this search also were discarded if the inclusive parameters were met, but the sequence was ribosomal or vector-derived.

The resulting sequences from the previous search were classified into three groups (1, 2 and 3 below) and searched in a BLASTX vs. NRP (non-redundant proteins) database search: (1) unknown (no hits in the Genbank search), (2) weak similarity (greater than 45% identity and p value of less than 1×10^{-5}), and (3) high similarity (greater than 60% overlap, greater than 80% identity, and p value less than 1×10^{-5}). This search resulted in discard of sequences as having greater than 99% overlap, greater than 99% identity, and p value of less than 1×10^{-40} .

The remaining sequences were classified as unknown (no hits), weak similarity, and high similarity (parameters as above). Two searches were performed on this set of sequences. First, a BLAST vs. EST database search resulted in discard of sequences with greater than 99% overlap, greater than 99% similarity and a p value of less than 1×10^{-40} ; sequences with a p value of less than 1×10^{-65} when compared to a database sequence of human origin were also excluded. Second, a BLASTN vs. Patent

GeneSeq database resulted in discard of sequences with greater than 99% identity; p value less than 1×10^{-40} ; greater than 99% overlap.

The masked sequences were translated in all six reading frames to determine the best alignment with the individual sequences. These amino acid sequences and nucleotide sequences are referred, generally, as query sequences, which are aligned with the individual sequences.

Query and individual sequences were aligned using the BLAST programs, available over the world wide web.

Table 2 shows the results of the alignments. Table 2 refers to each sequence by its Sequence Name and/or "Other Seq. Name" and includes the accession numbers and descriptions of nearest neighbors from the Genbank and Non-Redundant Protein searches.

The activity of the polypeptide encoded by the sequences referred to in Table 2 is expected to be the same or similar to the nearest neighbor reported in Table 2. The accession number of the nearest neighbor is reported, providing a reference to the activities exhibited by the nearest neighbor. The search program and database used for the alignment also are indicated as well as a calculation of the p value.

Full length sequences or fragments of the polynucleotide sequences of the nearest neighbors can be used as probes and primers to identify and isolate the full length sequence corresponding to sequence referred to in Table 2. Although full length sequences can be obtained from the cell lines described above, the nearest neighbors can indicate a tissue or cell type to be used to construct a library for the full-length sequences of those referred to in Table 2.

The sequences referred to in Table 2 and the translations thereof may be human homologs of known genes of other species or novel allelic variants of known human genes. In such cases, these new human sequences may be suitable as diagnostics, prognostics, or therapeutics. As diagnostics, the human sequences exhibit greater specificity in detecting and differentiating human cell lines and types than homologs of other species. The human polypeptides are less likely to be immunogenic when administered to humans than homologs from other species. Further, on

administration to humans, the encoded polypeptides can show greater specificity or can be better regulated by other human proteins than are homologs from other species.

In the preferred embodiments of the invention, the sequences shown in SEQ ID NO:1-339 consisting of the unmasked regions should be considered as the source of probes and primers, as these sequences are most representative of the distinguishing portions of these polynucleotides.

Generally, the masking itself does not influence the search results as shown in Table 2, except to eliminate multiple "hits" based on similarity to repetitive regions common to more than one polypeptide.

10

EXAMPLE 5

ANALYSIS OF CLONES SL-5, SL-9, SL-68, AND SL-173

Clone SL-5 (SEQ ID NO:14 and 334)

By Northern Blot, a 4.1 kb band was observed in expressed in normal prostate, testis, and lymphoblastic leukemia. It was also expressed in the cell lines LNCaP, and MDA PCa 2A and 2B (metastatic prostate cells into bone, androgen sensitive). Additional sequence corresponding to SEQ ID NO:14 is disclosed in SEQ ID NO:334.

Expression of SL-5 was investigated in normal and tumor tissues using immunohistochemistry. Antibody was prepared using two sequences from clone SL-5: H₂N-CGPRLPSFPCPTHEPSTGQLSK-CONH₂ and H₂N-CKDSQGLSDFKRNSRTTTR-RSYKCCONH₂. Using polyclonal antibodies raised against a mixture of these polypeptides, immunohistochemistry (IHC) was performed on a variety of tumor tissues and corresponding normal tissue. The methods used were those described for the Manual IHC Protocol using BioGenex Reagents and Zymed AEC Solution, as known in the art. As shown in Figure 3, SL-5 was detected in the following tumor tissue: adrenal, ovary, breast, colon, prostate, uterus, cervix, kidney, pancreas, liver, stomach, lymphoma, seminoma, thyroid, melanoma, basal cell carcinoma, and other tumor tissues. Where comparative normal tissue was available, expression in the

corresponding normal tissue was lower than in the tumor tissue. Thus, SL-5 is a useful marker for cancer tissue including prostate.

Clone SL-9 (SEQ ID NO:18)

By Northern Blot, sequences from SL-9 were specifically expressed in
5 normal spleen and normal peripheral blood leukocyte. Expression of the SL-9 sequences was observed also in promyelocytic leukemia HL-60, chronic mylogenous leukemia K-562, lymphoblastic leukemia MOLT-4, Burkitt's lymphoma, and Raji cancer cell lines by Northern Blot.

Clone SL-173 (SEQ ID NO:153 and 154)

10 By Northern Blot, SL173 was found in every cancer cell line tested. Sequence from SL-173 has similarity to and may be a human homologue of the rat tumor transforming gene, which was found in the pituitary and described in Pei *et al.*, Mol. Endo. 11: 433-441 (1997) and Pei, J. Biol. Chem. 273(9): 5219-5225 (1998). When the rat tumor transforming gene was injected in NIH3T3cells, the cells became
15 transformed and were able to form a tumor when injected into mice. (Pei *et al.*, Mol. Endo. supra).

Clone SL-68 (SEQ ID NO:218 and 219)

Two transcripts, 2.6kb and 4.3kb, were observed in normal spleen, thymus and peripheral blood leukocytes, as well as in promyelocytic leukemia, chronic
20 myelogenous leukemia and lymphoblastic leukemia. The 4.3kb transcript was seen in normal testis, colon, Hela cell S3, colorectal adenocarcinoma and melanoma. The 2.6kb band was found in the following prostate cell lines: PC-3 (metastatic to bone, androgen insensitive); DU-145 (metastatic to brain, androgen insensitive); FFpz (primary cells derived from normal prostate epithelium); Ffca (primary cells derived
25 from Gleason Grade 3 prostate cancer epithelium); and WO-CA (primary cells derived from Gleason Grade 4 prostate cancer epithelium). However, higher expression was observed in LNCaP, MDA PCa 2A, HPV-7 and HPV-10. A 9.5kb transcript was also observed in MDA PCa 2A and 2B. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:335.

Clone SL69 (SEQ ID NO:220 and 221)

A weak 2.6kb band was observed in normal testis as well as in chronic myelogenous leukemia and lymphoblastic leukemia. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:336.

5

Clone SL86 (SEQ ID NO:242 and 243)

The sequence was expressed in normal prostate (2.7kb and 1.1kb) and testis (1.1kb). Low expression was observed in a cancer cell line blot using the cell lines described above. 1.1kb and 2.7kb transcripts were observed in the cell lines LNCaP, and MDA PCa 2a and 2b (metastatic prostate cells into bone, androgen sensitive), and weak 1.1kb transcript was seen in HPV-7 (immortalized normal prostate cells) and HPV-10 (immortalized prostate cancer cells). Additional sequence corresponding to this clone is disclosed in SEQ ID NO:337.

15 Clone SL195 (SEQ ID NO:288 and 289)

The sequence was expressed in normal prostate as a 1.9kb transcript, and the same transcript also observed in all cell lines in the cancer cell line blot described above. It was more heavily expressed in HeLa cell S3 and chronic myelogenous leukemia, and was expressed in all prostate cell lines. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:338.

20

Clone SL197 (SEQ ID NO:292 and 293)

Two transcripts, 2.4kb and 4kb, were observed in normal prostate and testis. Two very weak 2.4kb signals were observed in HeLa cell S3 and chronic myelogenous leukemia. The 2.4kb transcript was expressed in all prostate cell lines. A 4kb transcript was found in LNCaP, MDA PCa 2A and 2B. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:339.

25

Those skilled in the art will recognize, or be able to ascertain, using not more than routine experimentation, many equivalents to the specific embodiments of

30

the invention described herein. Such specific embodiments and equivalents are intended to be encompassed by the following claims.

All patents, published patent applications and publications cited herein are incorporated by reference as if set forth fully herein.

TABLE 1

Clone #	Sequence Name	Other Seq Name	Clone # Cluster #	Nearest Neighbor If Available
SL-001	SL001 SL001M13	19sl1	SL-001	S60754 (VNTR locus DXZ4)
SL-002	SL002	20sl2	SL-002	L07935 HUMVNTRA
SL-003	SL003 SL003 SL003 SL003 SL003	21sl3 35-sl3-1m13 35-sl3-1t7 37-sl3-1m13 39-sl3-1m13	SL-003	AB006625 - KIAA0287 gene
SL-004	SL004 SL004M13	22sl4	SL-004	
SL-005	SL005 SL005	23sl5 30sl11b	SL-005	
SL-006	SL006 SL006M13	24sl6	SL-006	cosmid genomic clone
SL-007	SL007 SL007 SL007 SL007 SL007 SL007 SL007	25sl7 28-sl7-1m13 28-sl7-1t7 30-sl7-1m13 30-sl7-1t7 32-sl7-1m13 32-sl7-1t7	SL-003	AB006625- KIAA0287
SL-008	SL008	26sl8	SL-008	HUMP65 E=9e-62 L-plastin. Phosphoprotein (p65)
SL-009	SL009 SL009M13	27sl9		
SL-010	SL010	28sl10	SL-005	
SL-011	SL011	29sl11a	SL-011	HSU10685 - MAGE-10 Gene
SL-012	SL012	31sl12	SL-011	HSU10685 - MAGE-10 Gene
SL-013	SL013	32sl13		
SL-015	SL015 SL015 SL015 SL015	34sl15 46-sl15-2m13 47-sl15-2m13 47-sl15-2t7	SL-015	HSU90336 - PEG3 mRNA HSMRNAEN - Enkephalinase
SL-016	SL016 SL016 SL016 SL016 SL016 SL016	10-sl16-1m13 10-sl16-1t7 11-sl16-1m13 18-sl16-2m13 18-sl16-2t7 19-sl16-2m13	SL-016	

TABLE 1

	SL016	19-sl16-2t7		
	SL016	20-sl16-2m13		
	SL016	20-sl16-2t7		
	SL016	35sl16		
	SL016	9-sl16-1t7		
SL-017	SL017	36sl17	SL-017	HUMORF01 - KIAA0101 gene
SL-028	SL028m13	B1	SL-028	
	SL028t7	B1		
SL-029	SL029m13	WE97.C1.M13	SL-029	
	SL029t7	WE97.C1.T7		
SL-032	SL032m13	WE97.D1.M13	SL-032	HSTPI1G TPI1 gene
	SL032t7	WE97.D1.T7		for triosephosphate isomerase.
SL-036	SL036m13	WE97.E1.M13	SL-036	HSU81599 homeodomain protein
	SL036t7	WE97.E1.T7		HOXB13
SL-037	SL037m13	C1	SL-005	
	SL037m13	WE97.F1.M13		
	SL037t7	C1		
SL-040	SL040m13	D1	SL-040	
	SL040t7	D1		
SL-041	SL041m13	E1	SL-016	
	SL041m13	WE97.H1.M13		
	SL041t7	E1		
	SL041t7	WE97.H1.T7		
SL-042	SL042m13	WE97.A2.M13	SL-008	HUMP65 phosphoprotein (p65)
	SL042t7	WE97.A2.T7		HUMPLASTA L-plastin gene
SL-044	SL044m13	WE97.B2.M13	SL-016	
	SL044t7	WE97.B2.T7		
SL-045	SL045m13	WE97.C2.M13	SL-045	
	SL045t7	WE97.C2.T7		genomic DNA
SL-046	SL046m13	WE97.D2.M13	SL-046	
	SL046t7	WE97.D2.T7		
SL-047	SL047m13	WE97.E2.M13	SL-047	
	SL047t7	WE97.E2.T7		
SL-050	SL050m13	WE97.F2.M13	SL-050	
	SL050t7	WE97.F2.T7		
SL-051	SL051m13	WE97.G2.M13	SL-051	
	SL051t7	WE97.G2.T7		
SL-054	SL054m13	WE97.H2.M13	SL-054	
	SL054t7	WE97.H2.T7		
SL-055	SL055m13	F1	SL-050	
	SL055t7	F1		
	SL055t7	WE97.A3.T7		

TABLE 1

SL-057	SL057m13 WE97.C3.M13 SL057t7 WE97.C3.T7	SL-057	
SL-058	SL058m13 WE97.D3.M13 SL058t7 WE97.D3.T7	SL-058	HSLRPR1GN leucine-rich primary response protein 1.
SL-061	SL061m13 WE97.E3.M13 SL061t7 WE97.E3.T7	SL-028	
SL-062	SL062m13 WE97.F3.M13 SL062t7 WE97.F3.T7	SL-028	
SL-064	SL064m13 WE97.G3.M13 SL064t7 WE97.G3.T7	SL-064	
SL-066	SL066m13 WE97.H3.M13 SL066t7 WE97.H3.T7	SL-016	
SL-067	SL067m13 H1 SL067t7 H1 SL067t7 WE97.A4.T7	SL-067	HUMKIAAP - KIAA0095 gene
SL-068	SL068m13 WE97.B4.M13 SL068t7 WE97.B4.T7	SL-068	
SL-069	SL069m13 WE97.C4.M13 SL069t7 WE97.C4.T7	SL-069	
SL-071	SL071m13 WE97.D4.M13 SL071t7 WE97.D4.T7	SL-071	
SL-072	SL072m13 WE97.E4.M13 SL072t7 WE97.E4.T7	SL-015	HSU90336 Human PEG3 mRNA AB006625 KIAA0287
SL-074	SL074m13 WE97.F4.M13 SL074t7 WE97.F4.T7	SL-074	
SL-075	SL075m13 WE97.G4.M13 SL075t7 WE97.G4.T7	SL-075	
SL-076	SL076m13 WE97.H4.M13 SL076t7 WE97.H4.T7	SL-076	
SL-077	SL077m13 WE97.A5.M13 SL077t7 WE97.A5.T7	SL-077	
SL-078	SL078m13 A2 SL078m13 WE97.B5.M13 SL078t7 A2	SL-016	
SL-081	SL081m13 WE97.E5.M13 SL081t7 WE97.E5.T7	SL-003	BAC clone (with Alu) AB006625 - KIAA0287 gene
SL-083	SL083m13 WE97.G5.M13 SL083t7 WE97.G5.T7	SL-083	
SL-084	SL084m13 WE97.H5.M13 SL084t7 WE97.H5.T7	SL-084	(HS295C6 Human DNA sequence)

TABLE 1

SL-085	SL085m13 WE97.A6.M13	SL-085	
SL-086	SL086m13 WE97.B6.M13	SL-086	
	SL086t7 WE97.B6.T7		
SL-087	SL087m13 WE97.C6.M13	SL-087	EST and Mus musculus
	SL087t7 WE97.C6.T7		ras-GTPase-activating protein
SL-088	SL088m13 WE97.D6.M13	SL-015	HSU90336 Human PEG3
	SL088t7 WE97.D6.T7		& AB006625 - KIAA0287 gene
SL-089	SL089m13 WE97.E6.M13	SL-089	
	SL089t7 WE97.E6.T7		
SL-090	SL090m13 D2	SL-090	
	SL090t7 D2		
SL-091	SL091m13 WE97.G6.M13	SL-091	
	SL091t7 WE97.G6.T7		
SL-092	SL092m13 WE97.H6.M13	SL-092	HUMPRKACB testis-specific
	SL092t7 WE97.H6.T7		cAMP-dependent protein kinase
			catalytic subunit (C-beta isoform)
SL-093	SL093m13 E2	SL-008	HUMLPLSTN2 L-plastin gene
	SL093t7 E2		
SL-094	SL094m13 WE97.B7.M13	SL-094	
	SL094t7 WE97.B7.T7		
SL-095	SL095m13 WE97.C7.M13	SL-003	AB006625 - KIAA0287
	SL095t7 WE97.C7.T7		
SL-096	SL096m13 WE97.D7.M13	SL-096	
	SL096t7 WE97.D7.T7		
SL-097	SL097m13	SL-071	
	SL097t7		
SL-098	SL098m13	SL-098	
	SL098t7		
SL-099	SL099m13	SL-016	
	SL099t7		
SL-100	SL100m13 F2	SL-085	SL100m13 Alu - 2e-71
	SL100m13		
	SL100t7 F2		
	SL100t7		
SL-102	SL102m13	SL-102	HSRPL32 ribosomal protein L32
	SL102t7		
SL-103	SL103m13	SL-103	
	SL103t7		
SL-105	SL105m13	SL-105	
	SL105t7		
SL-106	SL106m13	SL-106	
	SL106t7		
SL-107	SL107m13	SL-016?	SL107m13 -Alu - 2e-78
	SL107t7		
SL-110	SL110m13	SL-003	AB006625- KIAA0287 gene

TABLE 1

	SL110t7		
SL-111	SL111m13 SL111t7	SL-111	
SL-112	SL112m13 SL112t7	SL-112	
SL-115	SL115m13 SL115t7	SL-115	D86322 - calmegin
SL-116	SL116m13 SL116t7	SL-116	
SL-117	SL117m13 SL117t7	SL-117	HUMNUMB23 = HUMNPM Human nucleolar protein (B23) or Human nucleophosmin
SL-118	SL118m13 SL118t7	SL-118	
SL-119	SL119m13 SL119t7	SL-119	
SL-120	SL120m13 SL120t7	SL-046	
SL-121	SL121m13 SL121t7	SL-016	
SL-122	SL122m13 SL122t7	SL-122	HUMPRKACB testis-specific cAMP-dependent protein kinase catalytic subunit (C-beta isoform)
SL-124	SL124m13 SL124t7	SL-016	
SL-125	SL125m13 SL125t7	SL-125	HSU19145 GAGE-4 (US 5,648,226)
SL-127	SL127m13 SL127t7	SL-127	
SL-128	SL128m13 SL128t7	SL-005	
SL-130	SL130m13 SL130t7	SL-130	
SL-132	SL132m13 SL132t7	SL-011	HSU10685 MAGE-10 gene (US 5,612,201)
SL-134	SL134m13 SL134t7	SL-134	HSC70P Hsc 70 pseudogene (Heat Shock protein)
SL-135	SL135m13 SL135t7	SL-135	
SL-138	SL138m13 SL138t7	SL-051	
SL-139	SL139m13 SL139t7	SL-139	Homo sapiens cosmid
SL-142	SL142m13 SL142t7	SL-005	

TABLE 1

SL-143	SL143m13 SL143t7	SL-143	Genomic clone AC003978
SL-144	SL144m13 SL144t7	SL-144	E= 3-81
SL-145	SL145m13	SL-003	AB006625- KIAA0287 gene
SL-146	SL146m13 WE97.E7.M13 SL146t7 WE97.E7.T7	SL-146	
SL-147	SL147m13 G2 SL147m13 WE97.F7.M13 SL147t7 G2	SL-147	(1) HSCDC2R Human cell cycle control gene CDC2 (2) HSU29091 selenium-binding
SL-148	SL148m13 WE97.G7.M13 SL148t7 WE97.G7.T7	SL-016	
SL-149	SL149m13 H2 SL149t7 H2	SL-149	
SL-150	SL150m13 A3 SL150t7 A3	SL-150	"Human DNA sequence"
SL-151	SL151m13 WE97.B8.M13 SL151t7 WE97.B8.T7	SL-151	Genomic frag
SL-152	SL152m13 WE97.C8.M13 SL152t7 WE97.C8.T7	SL-152	
SL-153	SL153m13 WE97.D8.M13 SL153t7 WE97.D8.T7	SL-153	
SL-154	SL154t7 WE97.E8.T7	SL-154	HUMPAR5R - PAR-5 mRNA
SL-155	SL155m13 WE97.F8.M13 SL155t7 WE97.F8.T7	SL-028	SL155m13 - EST only in Mouse
SL-156	SL156m13 WE97.G8.M13 SL156t7 WE97.G8.T7	SL-016	
SL-157	SL157m13 WE97.H8.M13 SL157t7 WE97.H8.T7	SL-157	
SL-158	SL158m13 WE97.A9.M13 SL158t7 WE97.A9.T7	SL-011	HSU10685 MAGE-10 gene (US 5,612,201)
SL-159	SL159m13 WE97.B9.M13 SL159t7 WE97.B9.T7	SL-159	Chromosome 11 pac
SL-160	SL160m13 WE97.C9.M13 SL160t7 WE97.C9.T7	SL-051	
SL-161	SL161m13 WE97.D9.M13 SL161t7 WE97.D9.T7	SL-161	HUMP65 phosphoprotein (p65) HUMPLASTA L-plastin gene
SL-162	SL162m13 B3 SL162t7 B3	SL-162	
SL-163	SL163m13 WE97.F9.M13 SL163t7 WE97.F9.T7	SL-016	HSU75330 -NCAM21
SL-164	SL164m13 WE97.G9.M13 SL164t7 WE97.G9.T7	SL-016	
SL-165	SL165m13 WE97.H9.M13 SL165t7 WE97.H9.T7	SL-165	(genomic seq)

TABLE 1

SL-166	SL166m13 C3 SL166t7 C3 SL166t7 WE97.A10.T7	SL-166	
SL-167	SL167m13 WE97.B10.M13 SL167t7 WE97.B10.T7	SL-167	HUMLPAC109 lipoprotein-associated coagulation inhibitor (LACI) gene
SL-168	SL168m13 WE97.C10.M13 SL168t7 WE97.C10.T7	SL-168	
SL-169	SL169m13 WE97.D10.M13 SL169t7 WE97.D10.T7	SL-169	HUMNEUROF oligodendrocyte myelin glycoprotein (OMG)
SL-170	SL170m13 WE97.E10.M13 SL170t7 WE97.E10.T7	SL-170	
SL-171	SL171m13 WE97.F10.M13 SL171t7 WE97.F10.T7	SL-171	AB002374 - KIAA0376 gene
SL-172	SL172m13 WE97.G10.M13 SL172t7 WE97.G10.T7	SL-016	
SL-173	SL173m13 WE97.H10.M13 SL173t7 WE97.H10.T7	SL-173	
SL-174	SL174m13 D3 SL174t7 D3	SL-174	
SL-175	SL175m13 WE97.B11.M13 SL175t7 WE97.B11.T7	SL-016	
SL-176	SL176m13 WE97.C11.M13 SL176t7 WE97.C11.T7	SL-176	
SL-177	SL177m13 WE97.D11.M13 SL177t7 WE97.D11.T7	SL-177	
SL-178	SL178m13 WE97.E11.M13 SL178t7 WE97.E11.T7	SL-178	Human BAC clone
SL-179	SL179m13 WE97.F11.M13 SL179t7 WE97.F11.T7	SL-179	
SL-181	SL181m13 WE97.H11.M13 SL181t7 WE97.H11.T7	SL-181	
SL-182	SL182m13 F3 SL182m13 WE97.A12.M13 SL182t7 F3	SL-182	HUMAPEA apurinic/apurimidinic endonuclease (HAP1h) HSHAP1MR Human HAP1 mRNA
SL-183	SL183m13 WE97.B12.M13 SL183t7 WE97.B12.T7	SL-046	
SL-184	SL184m13 WE97.C12.M13 SL184t7 WE97.C12.T7	SL-016	
SL-186	SL186m13 WE97.D12.M13 SL186t7 WE97.D12.T7	SL-186	
SL-187	SL187m13 WE97.E12.M13 SL187t7 WE97.E12.T7	SL-187	
SL-188	SL188m13 G3 SL188t7 G3 SL188t7 WE97.F12.T7	SL-188	

TABLE 1

SL-191	SL191m13 WE97.H12.M13 SL191t7 WE97.H12.T7	SL-181	
SL-192	SL192m13 H3 SL192t7 H3	SL-192	Human DNA sequence"
SL-193	SL193m13 A4 SL193t7 A4	SL-193	
SL-194	SL194m13 B4 SL194t7 B4	SL-194	HUMKG1DD - KIAA0098 gene
SL-195	SL195m13 C4 SL195t7 C4	SL-195	
SL-196	SL196m13 D4 SL196t7 D4	SL-196	HUMMAOAAA monoamine oxidase (MAOA)
SL-197	SL197m13 E4 SL197t7 E4	SL-197	
SL-198	SL198m13 F4 SL198t7 F4	SL-198	
SL-199	SL199m13 G4 SL199t7 G4	SL-016	
SL-201	SL201m13 A5 SL201t7 A5	SL-028	(Mouse ESTs only)
SL-202	SL202m13 B5 SL202t7 B5	SL-202	mitochondrial genome & ESTs(?)
SL-203	SL203m13 C5 SL203t7 C5	SL-040	
SL-204	SL204m13 D5 SL204t7 D5	SL-204	
SL-205	SL205m13 E5 SL205t7 E5	SL-205	
SL-206	SL206m13 F5 SL206t7 F5	SL-015	AB006625 - KIAA0287 gene
SL-207	SL207m13 G5 SL207t7 G5	SL-207	HUMFOLMES - DHFR dihydrofolate reductase gene
SL-208	SL208m13 H5 SL208t7 H5	SL-208	AB011165 - KIAA0593
SL-209	SL209m13 A6 SL209t7 A6	SL-209	

batch 1
batch 2
batch 3
batch 4

TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. Gb (nearest neighbor)		BlastX vs. NRPdb (nearest neighbor)		P(V)	Hit Description	P(V)
	Accession	Hit Description	Accession	Hit Description			
10-sl16-117	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
18-sl16-217	<NONE>	<NONE>					
22sl4	AC004601	*** SEQUENCING IN PROGRESS ... Human Chromosome 11p14.3 PAC clone pDJ939m16; HTGS phase 1, 3 unordered pieces. Homo sapiens chromosome 16 BAC clone CIT987SK-270G1 complete sequence.	MT_PLEPL	METALLOTHIONEIN (MT)>PIR2:S30567 metallothionein - plaice>GP:PPMMET_1 P.platessa mRNA for metallothionein	0.32		
27sl9	AF001549	Homo sapiens chromosome 16 BAC clone CIT987SK-270G1 complete sequence.	VP1_BPCHP	PROTEIN VP1 (ORF1)	1.0		
32sl13	AF006259	Homo sapiens Rad51-interacting protein mRNA, complete cds.	ALU6_HUMAN	III ALU SUBFAMILY SP WARNING ENTRY IIII	3.5e-07		
39-sl3-1m13	U07083	Human prostatic acid phosphatase (ACPP) gene, exon 1.	MMU93583_1	Mus musculus RAD51-binding protein RAB22 mRNA, complete cds	1.2e-13		
47-sl15-217	108056	Sequence 2 from Patent EP 0272928.	MMU41047_1	Mus musculus transcription factor Genesis mRNA, complete cds; A winged helix retinoic- acid hepatocyte nuclear factor 3/forkhead transcription factor; HNF3/FH transcription factor	0.36		
sl102m13	AC004453	Homo sapiens PAC clone DJ0844F09 from 7p12-p13, complete sequence.	SIK1_YEAST	SIK1 PROTEIN>PIR2:S48550 hypothetical protein YLR197w - yeast (Saccharomyces cerevisiae)>GP:SCU20237_1 Saccharomyces cerevisiae SIK1p (SIK1) gene, complete cds; Possible microtubule binding protein; similar to GenBank Accession Number U14913	2.7e-09		
sl103m13	AC002542	Human BAC clone RG114A06 from 7q31, complete sequence.	MUSIGHV01B_1	Mouse CBA/J Ig heavy chain V1 region pseudogene, 5' end; Ig heavy chain precursor; Possible pseudogene	0.30		
sl10317	AC002542	Human BAC clone RG114A06 from 7q31, complete sequence.	MUSIGHV01B_1	Mouse CBA/J Ig heavy chain V1 region pseudogene, 5' end; Ig heavy chain precursor; Possible pseudogene	0.25		

TABLE 2

BlastN vs. Gb (nearest neighbor)			BlastX vs. NRPdb (nearest neighbor)			
Seq. Name and/or Other Seq. Name.	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
sl10617	148979	Sequence 6 from patent US 5627054.	4.3e-39	Y694_METJA	HYPOTHETICAL PROTEIN MJ0694>PIR2:F64386 hypothetical protein MJ0694 - Methanococcus jannaschii>GP:U67516_8 Methanococcus jannaschii section 58 of 150 of the complete genome; Conserved hypothetical protein; Similar to SP:Q12499 PID:1420682 PI	1.5e-08
sl10717.fsa	AL021385	Human DNA sequence *** SEQUENCING IN PROGRESS *** from clone 269M15; HTGS phase 1.	2.6e-07	ALU4_HUMAN	IIII ALU SUBFAMILY SB2 WARNING ENTRY IIII	0.45
sl12417	B31344	HS-1008-A2-A05-MF-abiCIT Human Genomic Sperm Library C Homo sapiens genomic clone Plate=CT 330 Col=10 Row=A, genomic survey sequence.	1.0e-55	ALU7_HUMAN	IIII ALU SUBFAMILY SQ WARNING ENTRY IIII	1.2e-14
sl12717	Z83818	Human DNA sequence from PAC 138A5 on chromosome X contains ESTs.	2.8e-16	YA3A_SCHPO	HYPOTHETICAL TRP-ASP REPEATS CONTAINING PROTEIN C18B11.10 IN CHROMOSOME I>PIR2:S58306 hypothetical protein SPAC18B11.10 - fission yeast (Schizosaccharomyces pombe)>GP:SPAC18B11_10 S;pombe chromosome I cosmid c18B11; Unknown; SPAC18B11.10, le	0.97
sl135m13	AC003959	Homo sapiens chromosome 5, P1 clone 1029A7 (LBNL H15), complete sequence.	1.8e-57	AC004416_5	Homo sapiens BAC clone RG013N12 from 7q31.2, complete sequence; H. RG013N12;gw;1335199;a	0.016
sl13517	AC003044	Human PAC clone DJ1055C04 from 7p15-7p21, complete sequence.	3.8e-25	ATTS0669_1	A; italiana transcribed sequence; clone VDV28- 22792, 3' end; similar to nonspecific lipid- transfer protein precursor	0.77
sl144m13	AC003684	Homo sapiens; HTGS phase 1, 53 unordered pieces. *** SEQUENCING IN PROGRESS *** Human Chromosome 7 BAC Clone 155b01; HTGS phase 1, 11 unordered pieces.	2.2e-10	<NONE>	<NONE>	<NONE>
sl14417	AC004089		0.25	<NONE>	<NONE>	<NONE>

TABLE 2

Seq. Name and/or Other Seq. Name.	BlasI vs. Gb (nearest neighbor)		BlasIX vs. NRPdb (nearest neighbor)		P(V)	Hit Description	P(V)
	Accession	Hit Description	Accession	Hit Description			
SL149m13 WE97.H7.M13	M87923	Human carcinoma cell-derived Alu RNA transcript, clone CE12.	ALU2_HUMAN	IIII ALU SUBFAMILY SB WARNING ENTRY IIII	7.2e-55		4.7e-17
SL150m13 WE 97.A8.M13	AF019122	Homo sapiens DNA polymerase gamma (POLG) gene, nuclear gene encoding mitochondrial protein, partial sequence, genomic survey sequence.	<NONE>	<NONE>	5.5e-07	<NONE>	<NONE>
SL152m13	AF022186	Cyanidium caldarium RK1 chloroplast sequence.	<NONE>	<NONE>	0.11	<NONE>	<NONE>
SL15217	AC002524	Homo sapiens Xp22 BAC GSHB-257G1 (Genome Systems BAC Library) complete sequence.	F40201	artifact-warning sequence (translated ALU class F) - human	3.5e-28		1.2e-05
SL153m13	U29895	Human 4-hydroxyphenylpyruvate-dioxygenase gene, complete cds.	C40201	artifact-warning sequence (translated ALU class C) - human	4.4e-15		0.49
SL15317	U29895	Human 4-hydroxyphenylpyruvate-dioxygenase gene, complete cds.	A46010	X-linked retinopathy protein (C-terminal, clone XEH.8c) - human (fragment)>GP:S58722_1 X-linked retinopathy protein [3' region, clone XEH.8c] [human, mRNA Partial, 390 nt]; This sequence comes from Fig. 5	5.1e-09		0.070
SL155m13	Z99286	Caenorhabditis elegans cosmid Y7A9C, complete sequence.	POLG_PRSVH	GENOME POLYPROTEIN (CONTAINS: N-TERMINAL PROTEIN; HELPER COMPONENT PROTEINASE (EC 3.4.22.-) (HC-PRO); 42-50 KD PROTEIN; CYTOPLASMIC INCLUSION PROTEIN (CI); 6 KD PROTEIN; NUCLEAR INCLUSION PROTEIN A (NI- A) (EC 3.4.22.-) (49K PROTEINASE) (49	0.016		1.0
SL157m13	U91321	Human Chromosome 16 BAC clone CIT987SK-A-363E6, complete sequence.	ALU1_HUMAN	IIII ALU SUBFAMILY J WARNING ENTRY IIII	6.0e-26		4.5e-11

TABLE 2

BlastN vs. Gb (nearest neighbor)			BlastX vs. NRPdb (nearest neighbor)			
Seq. Name and/or Other Seq. Name.	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
SL181m13	Z98867	Caenorhabditis elegans DNA *** SEQUENCING IN PROGRESS *** from clone Y52B11; HTGS phase 1.	0.017	PS0245	hypothetical protein (cpcG4 region) - Anabaena sp. (strain PCC 7120) (fragment)>GP:ANARODCORA_6 Anabaena sp: cpcF gene, 3' end; cpcG1, cpcG2, cpcG3, and cpcG4 genes, complete cds; and unknown ORF, 3' end	0.99
SL181i7	Z98867	Caenorhabditis elegans DNA *** SEQUENCING IN PROGRESS *** from clone Y52B11; HTGS phase 1.	0.018	PS0245	hypothetical protein (cpcG4 region) - Anabaena sp. (strain PCC 7120) (fragment)>GP:ANARODCORA_6 Anabaena sp: cpcF gene, 3' end; cpcG1, cpcG2, cpcG3, and cpcG4 genes, complete cds; and unknown ORF, 3' end	0.99
SL191m13	Z98867	Caenorhabditis elegans DNA *** SEQUENCING IN PROGRESS *** from clone Y52B11; HTGS phase 1. *** SEQUENCING IN PROGRESS *** Homo sapiens chromosome #16q12.1+16q22/23+1q11/12 BAC clone CIT987SK-A-427H10; HTGS phase 1, 15 unordered pieces.	0.019	<NONE>	<NONE>	<NONE>
SL195m13	AC004626	*** SEQUENCING IN PROGRESS *** Homo sapiens chromosome #16q12.1+16q22/23+1q11/12 BAC clone CIT987SK-A-427H10; HTGS phase 1, 15 unordered pieces.	0.050	HSU55091_1	Human isolate HR015 T cell receptor V-beta complementarity determining region 3 mRNA, partial cds	1.0
SL195i7	AC004626	*** SEQUENCING IN PROGRESS *** Homo sapiens chromosome #16q12.1+16q22/23+1q11/12 BAC clone CIT987SK-A-427H10; HTGS phase 1, 15 unordered pieces.	0.053	S54078	probable membrane protein YPR056w - yeast (Saccharomyces cerevisiae)>GP:SC9499X_12 S:cerevisiae chromosome XVI cosmid 9499; Unknown; YP9499;12, unknown, len:338, CAl: 0:12, similar to S44455, transcription factor BTF2 chain p34, (29:3% identit	0.64
SL197m13	AF003134	Caenorhabditis elegans cosmid ZC581.	0.99	<NONE>	<NONE>	<NONE>
SL197i7	U43400	Human herpesvirus-7 (tIHV7) J1, complete virion genome.	0.99	<NONE>	<NONE>	<NONE>
SL197	V00073	Sindbis virus sequence complementary to 26S messenger RNA.	3.2e-09	<NONE>	<NONE>	<NONE>

TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. Gb (nearest neighbor)		BlastX vs. NRPdb (nearest neighbor)		P(V)
	Accession	Hit Description	Accession	Hit Description	
SL201m13	AB001684	Chlorella vulgaris C-27 chloroplast DNA, complete sequence.	SIU05069_1	Simian immunodeficiency virus SIVRHE543 clone 5-4 envelope glycoprotein (env) gene, V1 region, partial cds	1.0
SL201i7	AB001684	Chlorella vulgaris C-27 chloroplast DNA, complete sequence.	HUMLTBP_1	Homo sapiens (clone H 4,4) latent transforming growth factor- beta binding protein (L TBP- 1L) gene, partial cds; Latent transforming growth factor-binding protein	1.0
SL204m13	Z49910	Caenorhabditis elegans cosmid F44G4, complete sequence.	CEF44G4_1	Caenorhabditis elegans cosmid F44G4, complete sequence; F44G4;1; Similarity to 35:1KD hypothetical yeast protein (Swiss Prot accession number P38805); cDNA EST CEMSE65F comes from this	5.6e-72
SL204i7	Z49910	Caenorhabditis elegans cosmid F44G4, complete sequence.	CEF44G4_1	Caenorhabditis elegans cosmid F44G4, complete sequence; F44G4;1; Similarity to 35:1KD hypothetical yeast protein (Swiss Prot accession number P38805); cDNA EST CEMSE65F comes from this	2.3e-71
SL28m13	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
SL28i7	Z84469	Human DNA sequence *** SEQUENCING IN PROGRESS *** from clone 390O13; HTGS phase 1.	<NONE>	<NONE>	<NONE>
SL29m13	AC004465	Homo sapiens 12q24 PAC RPC13-363118 (Roswell Park Cancer Institute Human PAC library) complete sequence.	MCRA_METFE	METHYL-COENZYME M REDUCTASE ALPHA SUBUNIT (EC 1.8.-.)>GP:MEFMCRC_5 M;tervidus methyl coenzyme M reductase component C genes mcrA, mcrB, mcrC, mcrD, and mcrG, complete cds; Methyl coenzyme M reductase alpha subunit	0.95
SL29i7	AC004465	Homo sapiens 12q24 PAC RPC13-363118 (Roswell Park Cancer Institute Human PAC library) complete sequence.	MCRA_METFE	METHYL-COENZYME M REDUCTASE ALPHA SUBUNIT (EC 1.8.-.)>GP:MEFMCRC_5 M;tervidus methyl coenzyme M reductase component C genes mcrA, mcrB, mcrC, mcrD, and mcrG, complete cds; Methyl coenzyme M reductase alpha subunit	0.97

TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. Gb (nearest neighbor)		BlastX vs. NRPdb (nearest neighbor)		P(V)	Accession	Hit Description	P(V)	Hit Description	P(V)
	Accession	Hit Description	Accession	Hit Description						
SL4M13	D42085	Human mRNA for KIAA0095 gene, complete cds.		Human mRNA for KIAA0095 gene, complete cds; KIAA0095 gene is related to S.cerevisiae NIC96 gene	2.0e-27	HUMKIAAP_1				3.6e-12
SL54m13	Z68694	Human DNA sequence from cosmid cU177E8, between markers DXS366 and DXS87 on chromosome X.		Human factor VIII gene L1 element insertion DNA; Unknown protein; ORF; putative	4.9e-28	HUMF8L1A_1				1.2e-12
SL6117	AB001684	Chlorella vulgaris C-27 chloroplast DNA, complete sequence.		Homo sapiens CDO mRNA, complete cds; Immunoglobulin superfamily member; contains fibronectin type III-like domain	0.00083	AF004841_1				1.0
SL6217	AC004153	*** SEQUENCING IN PROGRESS *** Plasmodium falciparum 3D7 chromosome 12 PFYAC812 genomic sequence; HTGS phase 1, 26 unordered pieces.			1.0	<NONE>		<NONE>		<NONE>
SL68m13	AC004157	*** SEQUENCING IN PROGRESS *** Plasmodium falciparum 3D7 chromosome 12 PFYAC293 genomic sequence; HTGS phase 1, 18 unordered pieces.			0.00071	<NONE>		<NONE>		<NONE>
SL6817	AJ226619	Ciona intestinalis genomic fragment, clone 17H6, genomic survey sequence.			0.064	<NONE>		<NONE>		<NONE>
SL69m13.lsa	Z22789	H.sapiens CA/GT repeat polymorphism sequence.		Borrelia burgdorferi (section 65 of 70) of the complete genome; Competence protein F, putative; Similar to GB:M59751 SP:P31773 PID:1573409 percent identity: 27;00; identified by sequence	1.9e-22	AE001179_2				1.0
SL6917	AL010138	Plasmodium falciparum DNA *** SEQUENCING IN PROGRESS *** from contig 3-66, complete sequence.		Borrelia burgdorferi (section 65 of 70) of the complete genome; Competence protein F, putative; Similar to GB:M59751 SP:P31773 PID:1573409 percent identity: 27;00; identified by sequence	0.21	AE001179_2				1.0
SL75m13	AC002536	Human Chromosome 11 pac pDJ1075120, complete sequence.		B.taurus mRNA for complete thrombospondin	1.0	BTRNAT3_1				0.0074

TABLE 2

BlasIN vs. Gb (nearest neighbor)			BlasIX vs. NRPdb (nearest neighbor)			
Seq. Name and/or Other Seq. Name.	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
SL7717	AF012886	Buchnera aphidicola UDP-N-acetylmuramate: L-alanine ligase (murC157), D-alanine: D-alanine ligase (ddlB), cell division protein (ftsA), cell septation protein (ftsZ), and pls genes, complete cds.	0.40	<NONE>	<NONE>	<NONE>
SL86m13	Z69790	Caenorhabditis elegans cosmid F33C8, complete sequence.	0.020	<NONE>	<NONE>	<NONE>
SL8617	U39368	Acanthonevra sp. 16S ribosomal RNA gene, mitochondrial gene encoding mitochondrial RNA, partial sequence.	0.054	<NONE>	<NONE>	<NONE>
SL90m13	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
SL94m13	X95276	P.falciparum complete gene map of plastid-like DNA (IR-B).	0.0096	SHFORF_1	Shigella sonnei DNA for 26 ORFs, complete cds; ORF1	0.15
SL9417	AL022313	Human DNA sequence *** SEQUENCING IN PROGRESS *** from clone 1119A7; HTGS phase 1.	6.0e-18	A46010	X-linked retinopathy protein (C-terminal, clone XEH.8c) - human (fragment)>GP:S58722_1 X-linked retinopathy protein (3' region, clone XEH.8c) [human, mRNA Partial, 390 nt]; This sequence comes from Fig. 5	5.7e-07

CLAIMS

WE CLAIM:

1. A method of diagnosing cancer, tumor progression, hyperproliferative cell growth or accompanying biological and physical manifestations comprising:

- (a) providing a polynucleotide probe that comprises a sequence capable of hybridizing to any one of the sequences shown in SEQ ID NO:1-339 or complement thereof;
- (b) contacting a biological sample for diagnosis with said probe under hybridizing conditions that permit formation of a duplex; and
- (c) determining the presence of said duplex.

2. The method of claim 1, wherein said polynucleotide probe comprises at least eight contiguous nucleotides of any of SEQ ID NO:1-339 or complement thereof.

3. The method of claim 2, wherein said polynucleotide probe comprises 8 contiguous nucleotides of the sequences of the clones selected from the group consisting of SL-5, SL-6, SL-9, SL-11, SL-13, SL-68, SL-69, SL-86, SL-90, SL-100, SL-107, SL-124, SL-135, SL-139, SL-143, SL-152, SL-153, SL-173, SL-177, SL-195, and SL-197.

4. A method of diagnosing cancer, tumor progression, or hyperproliferative cell growth comprising:

- (a) providing an antibody capable of binding to a polypeptide encoded by any one of SEQ ID NO:1-339 or complement thereof;
- (b) contacting a biological sample for diagnosis with said antibody under binding conditions that permit formation of an antibody-polypeptide complex; and
- (c) determining the presence of said complex.

5. The method of claim 4, wherein said antibody is capable of binding to a polypeptide comprising at least six contiguous amino acid of a polypeptide encoded by any one of SEQ ID NO:1-339 or complement thereof.

6. The method of claim 5, wherein said polypeptide comprises at least six contiguous amino acids of a polypeptide encoded by any one the sequences of the clones selected from the group consisting of SL-5, SL-6, SL-9, SL-11, SL-13, SL-68, SL-69, SL-86, SL-90, SL-100, SL-107, SL-124, SL-135, SL-139, SL-143, SL-152, SL-153, SL-173, SL-177, SL-195, and SL-197.

7. A diagnostic kit comprising:

(a) a diagnostic reagent comprising a polynucleotide probe that comprises a sequence capable of hybridizing to any one of SEQ ID NO:339 or complement thereof when said sequence is present in a test biological sample;

(b) a normal biological sample; and

(c) instructions for detecting differences that exist between the levels of duplexes in said test biological sample as compared to said normal biological sample.

8. A method of treating a mammal with cancer, tumor progression, hyperproliferative cell growth or accompanying biological and physical manifestations, said method comprising administering to said mammal a composition that comprises a therapeutically effective amount of a polynucleotide comprising a sequence capable of hybridizing under stringent conditions to any one of SEQ ID NO:1-339 or complement thereof.

9. The method of claim 8, wherein said polynucleotide comprises at least eight contiguous nucleotides of any of SEQ ID NO:1-339 or complement thereof.

10. The method of claim 9, wherein said polynucleotide is an antisense construct.

11. The method of claim 9, wherein said polynucleotide is a ribozyme construct.

12. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of any one of SEQ ID NO:2, 5, 49, 50, 99, 100, 115, 116, 118, 130, 131, 140, 144, 145, 146, 157, 158, 159, 163, 164, 165, 166, 177, 178, 180, 211, 212, 213, 218, 219, 220, 221, 229, 232, 233, 242, 243, 248, 249, 254, 256, 257, 259, 272, 273, 277, 288, 289, 292, 293, 316, 317, and 330;
 - (b) a polynucleotide encoding a variant of the polypeptide encoded by (a);
- and
- (c) a polynucleotide encoding a protein expressed by a polynucleotide having the sequence of at least one of sequences of (a).
13. A vector comprising the polynucleotide of claim 12.
14. A host cell comprising the vector of claim 13.
15. A composition comprising a polypeptide, wherein the polypeptide is selected from the group consisting of:
- (a) a polypeptide encoded by any one of the polynucleotides of claim 12,
- and
- (b) a variant of the polypeptide of (a).

1/3

Sequence Range: 1 to 1383

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      10      20      30      40      50      60
TTA CTC ACT ATA GGG CTC GAG CGG CCG CCC GGG CAG GTC TAA AAA TAA AAT GAC AGT TTG AAC ATA CAA
AAT GAG TGA TAT CCC GAG CTC GCC GGC GGG CCC GTC CAC ATT TTT ATT TTA CTG TCA AAC TTG TAT GTT
<E S Y P E L P R G P L H L F L I V T Q V Y L

      70      80      90     100     110     120     130
AAC CCA CCC CAT TCC TAT AGA GCC TAG TAC TAC ACT ACC CCC TCC CAA CTT TAG CCT CCA CAT ATA GTA
TTG GGT GGG GTA AGG ATA TCT CGG ATC ATG ATG TGA TGG GGG AGG GTT GAA ATC GGA GGT GTA TAT CAT
<V W G M G I S G L V V S G G G L K L R W M Y Y

      140     150     160     170     180     190     200
ATG TGC TTG GAA CAC AAA AAA CAC TTC ATA AAT TGT GCT GAA TGA AAT CAT TTC CAT GAG TGT TTA TGG
TAC ACG AAC CTT GTG TTT TTT GTG AAG TAT TTA ACA CGA CTT ACT TTA GTA AAG GTA CTC ACA AAT ACC
<H A Q F V F F V E Y I T S F S I M E M

      210     220     230     240     250     260     270
ATT TTG AGT TCA TTT GTA CCT TTT ACC TAA AAT TCT AGC CAC TTT AAT TTG GAG AGT TTC CAG AGC AAA
TAA AAC TCA AGT AAA CAT GGA AAA TGG ATT TTA AGA TCG GTG AAA TTA AAC CTC TCA AAG GTC TCG TTT

      280     290     300     310     320     330     340
GGA CCT TTT ACC TAA AAT TCT AGC CAC TTT AAT TTG GAG AGT TTC CAG AGC AAA GGG CAC AGA TCC CAG
CCT GGA AAA TGG ATT TTA AGA TCG GTG AAA TTA AAC CTC TCA AAG GTC TCG TTT CCC GTG TCT AGG GTC

      350     360     370     380     390     400     410
GCA TAA CAA CGC TTT GCG TAT ACA GCA ACC AAT ATC TTG TCA ACC CAA GAA AGT TCC TCC ATT GAT ACC
CGT ATT GTT GCG AAA CGC ATA TGT CGT TGG TTA TAG AAC AGT TGG GTT CTT TCA AGG AGG TAA CTA TGG

      420     430     440     450     460     470     480
TAG TAG AAA TAG CCC AGT TTT TAA AGT CCT CAA AAC TGT AAC AAA TTA CTT GTT TTT AAA ATT TAA CTT
ATC ATC TTT ATC GGG TCA AAA ATT TCA GGA GTT TTG ACA TTG TTT AAT GAA CAA AAA TTT TAA ATT GAA

      490     500     510     520     530     540     550
AAA TTA ATA CAA TCA GAT TTT TGT GTT ATT TGG GTA TTA GAG TAT GTT AAA GCA CAT ATA TCC CAG AGA
TTT AAT TAT GTT AGT CTA AAA ACA CAA TAA ACC CAT AAT CTC ATA CAA TTT CGT GTA TAT AGG GTC TCT

      560     570     580     590     600     610     620
CAT AGA GTT TCC GTT TCA AAA AGT CAT GCA TTC ATG TGT GCT AAT GAC AAT CCT ATC CTC AGC CGC TAT
GTA TCT CAA AGG CAA AGT TTT TCA GTA CGT AAG TAC ACA CGA TTA CTG TTA GGA TAG GAC TGG CGC ATA

      630     640     650     660     670     680     690
GTG ACT TGT ATC TCT AAA CCA TAG GCT TTC CTG AAT TTT ATC TGT TAA TTT AAC CCT GAT TTC TCA GCA
CAC TGA ACA TAG AGA TTT GGT ATC CGA AAG GAC TTA AAA TAG ACA ATT AAA TTG GGA CTA AAG AGT CGT

      700     710     720     730     740     750
GCA GCT TCT CTT TGT AAA TAG ACT TGC CTC TTC TGT TGA CCT CTG CTC CTC ATA ATC AGA TTA ACT
CGT CGA AGA GAA ACA TTT ATC TGA ACG GAG AAG ACA CAG ACT GGA GAC GAG GAG TAT TAG TCT AAT TGA

      760     770     780     790     800     810     820
CAG ATA AAG CTG CTT CAG GGA AGA GGT CAA AAC CGT TGC CAA AAA TAG TAG TTG CCC TAC TTC AGT CTA
GTC TAT TTC GAC GAA GTC CCT TCT CCA GTT TTG GCA ACG GTT TTT ATC ATC AAC GGG ATG AAG TCA GAT

      830     840     850     860     870     880     890
TTT TCA ACA GAG TAG CCA GGA GAT CCT GTT CAC ACC AAA GTC CAA TCA GCC CTA CTG TTA GCA CTC TGC
AAA AGT TGT CTC ATC GGT CCT CTA GGA CAA GTG TGG TTT CAG GTT AGT CGG GAT GAC AAT CGT GAG ACG

      900     910     920     930     940     950     960
TCA CAA GCC TCC AGT GGC TTC CGA CCT CAC TCA CAG TAA AAG CCA AGT CAT CCT TTA GCC TAT GAT GTC
AGT GTT CGG AGG TCA CCG AAG GCT GGA GTG AGT GTC ATT TTC GGT TCA GTA GGA AAT CGG ATA CTA CAG

      970     980     990     1000     1010     1020     1030
CTA CAT GAT TTG AAT TCC CTT CCA TTG ATT TTT GTC ACT GAT TTT TAA AAA TCC AAA TTC ATT CTC ATA
GAT GTA CTA AAC TTA AGG GAA GGT AAC TAA AAA CAG TGA CTA AAA ATT TTT AGG TTT AAG TAA GAG TAT

      1040     1050     1060     1070     1080     1090     1100
CAG CTG AAT TGT CCT CTT TGC TTT AAG TAT GCC AGG ATT ATT TCT ACC TCA GGG CCT TTG CAC TTG ATA
GTC GAC TTA ACA GGA GAA ACG AAA TTC ATA CGG TCC TAA TAA AGA TGG AGT CCC GGA AAC GTG AAC TAT

      1110     1120     1130     1140     1150     1160     1170
TTC CCT TCA CCT TTT CCA AGA TAG TTA TTC CCT CAC CTC AGT CAA GCC TTT ATT TAG ATG CCC CCT TCT
AAG GGA AGT GGA AAA GGT TCT ATT AAT AAG GGA GTG GAG TCA GTT CGG AAA TAA ATC TAC GGG GGA AGA

      1180     1190     1200     1210     1220     1230     1240
CAT CAA GGC ATT CTC TGA TCT CCT TAT TTA AAT GTA TGA CAC CCC TTC TTT GCT TTA CAT TTA ATC AGA
GTA GTT CCG TAA GAG ACT AGA GGA ATA AAT TTA CAT ACT GTG GGG AAG AAA CGA AAT GTA AAT TAG TCT

      1250     1260     1270     1280     1290     1300     1310
ACA TGT GTC ACT ATC TAG CAT ATA ATA CAT TTG CTT GAC CTC TTT TGT TTA CTG TCT ATC CCT CCT GAA
TGT ACA CAG TGA TAG ATC GTA TAT TAT GTA AAC GAA CTG GAG AAA ACA AAT GAC AGA TAC GGA GGA CTT

      1320     1330     1340     1350     1360     1370     1380
TAC TGT GTA AGC TCC ACG ATA CAG GCA CTT TTC TCT ATT TCG AGC ACT GTT GTA TTA CAG AGC CTT AAA
ATG ACA CAT TCG AGG TGC TAT GTC CGT GAA AAG AGA TAA AGC TCG TGA CAA CAT AAT GTC TCG GAA TTT

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FIGURE 1

2/3

Sequence Range: 1 to 1815

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      10      20      30      40      50      60
ACT TTT TGT TCA TTT TGA TTT TTG GAT AAT GCA AAA TTA TAG ATT TTT TAA AAA TTA TAT TCA AAG AAT
TGA AAA ACA AGT AAA ACT AAA AAC CTA TTA CGT TTT AAT ATC TAA AAA ATT TTT AAT ATA AGT TTC TTA

      70      80      90      100      110      120      130
ACT GAG TGC AAG ACA ATC TTT CTA GGT TAA AAA ATA TCT TAT AAA CCT GAA TTG TCA ATT ATT ATT GTA
TGA CTC ACG TTC TGT TAG AAA GAT CCA ATT TTT TAT AGA ATA TTT GGA CTT AAC AGT TAA TAA TAA CAT

      140      150      160      170      180      190      200
TCC CAG ATG TAT GGA AGT TAA TGG ATA GTC AGT AAC ATA CAG GAC TAG CAG AAG GTT TGT TGT TAT AGG
AGG GTC TAC ATA CCT TCA ATT ACC TAT CAG TCA TTG TAT GTC CTG ATC GTC TTC CAA ACA ACA ATA TCC

      210      220      230      240      250      260      270
TAA TCT GGA GAG AAG CCA GGT AAG TGG AAT TTG GGA TTT GCT GCT GTT GCC AGA AAG CAG CAC AGA GAC
ATT AGA CCT CTC TTC GGT CCA TTC ACC TTA AAC CCT AAA CGA CGA CAA CGG TCT TTC GTC GTG TCT CTG

      280      290      300      310      320      330      340
ATG GTA AGT GGC AAG ACC CAG GTA ACT AAA ACA ACC ATG TCT TAG TCC TTT TAT GCT GCT GTA ACA GAA
TAC CAT TCA CCG TTC TGG GTC CAT TGA TTT TGT TGG TAC AGA ATC AGG AAA ATA CGA CGA CAT TGT CTT

      350      360      370      380      390      400      410
TAT CAC AGA CTG AGT AAT TTA TAA TGA ACA GAA CTT TAT TTG TCT TCT GGT TCT GGA GAC TGG GAA ATC
ATA GTG TCT GAC TCA TTA AAT ATT ACT TGT CTT GAA ATA AAC AGA AGA CCA AGA CCT CTG ACC CTT TAG

      420      430      440      450      460      470      480
TAA GAG CGT GGC ATT GAC ATA TGG TGA GGG CAT TTG TGC CTC ATC ATC CCA TGA CAG AAG ATG GAA ATG
ATT CTC GCA CCG TAA CTG TAT ACC ACT CCC GTA AAC ACG GAG TAG TAG GGT ACT GTC TTC TAC CTT TAC

      490      500      510      520      530      540      550
CAA GAG AGC TCA AAA GCA AGA GAG CAA ATG GGG CCA AAC TTG CTT TTT ATA ACA AGC CAC TCT TGT GAT
GTT CTC TCG AGT TTT CGT TCT CTC GTT TAC CCC GGT TTG AAC GAA AAA TAT TGT TCG GTG AGA ACA CTA

      560      570      580      590      600      610      620
AAT GAA CCA ACT CAA ACA ATA AAG ACA TAA ATC CAT TCA TGA GGG CAG AGC CCT CAA GGA TGA ATC ACT
TTA CTT GGT TGA GTT TGT TAT TTC TGT ATT TAG GTA AGT ACT CCC GTC TCG GGA GTT CCT ACT TAG TGA

      630      640      650      660      670      680
TCA CTT CTT A ATG GCC TCA GCT TCT AAT ACC ATC ACA ATA GTA ATT CAG TTT CAA CAT GGG TTT TAT
AGT GAA GAA T TAC CGG AGT CGA AGA TTA TGG TAG TGT TAT CAT TAA GTC AAA GTT GTA CCC AAA ATA
      M A S A S N T I T I V I Q F Q H G F Y>

      690      700      710      720      730      740      750
AGG GAC GTT GGA ACC ACA GCA AAC TGT AAC CAT TTT GAT TTC CTT ATT TGC ACC ATT TTA AAA AAA CCT
TCC CTG CAA CCT TGG TGT CGT TTG ACA TTG GTA AAA CTA AAG GAA TAA ACG TGG TAA AAT TTT TTT GGA
R D V G T T A N C N H F D F L I C T I L K K P>

      760      770      780      790      800      810      820
ATT TAT TTA ACG ACT GTT TAT TCA GTG CCT ATT CTG TTG TGT TGG GGA CTA GAG GTA ATT ACA AAG GGA
TAA ATA AAT TGC TGA CAA ATA AGT CAC GGA TAA GAC AAC ACA ACC CCT GAT CTC CAT TAA TGT TTC CCT
I Y L T T V Y S V P I L C W G L E V I T K Q>

      830      840      850      860      870      880      890
ATA AGA CAA ACA GTC ACC CAC TCT GGT GAT GCT TCC CTT ATC TTC ATA ATG CAT TTG ATC CTG TG ATT
TAT TCT GTT TGT CAG TGG GTG AGA CCA CTA CGA AGG GAA TAG AAG TAT TAC GTA AAC TAG GAC AC TAA
I R Q T V T H S G D A S L I F I M H L I L>

      900      910      920      930      940      950      960
CTT TGG CAC ATG AGT CCA TTG CAT CTT GCA TAT TAG TGT CCA GTA AGT TTT TCC TGA CCA ATT GAT AAT
GAA ACC GTG TAC TCA GGT AAC GTA GAA CGT ATA ATC ACA GGT CAT TCA AAA AGG ACT GGT TAA CTA TTA

      970      980      990      1000      1010      1020      1030
ATA GAT ATA CAT TGG TAG CAG TTT TGT GTA TAT TTT TAT AGT TAG ATG TTG TTG GCA CAT GTG ACT TGT
TAT CTA TAT GTA ACC ATC GTC AAA ACA CAT ATA AAA ATA TCA ATC TAC AAC AAC CGT GTA CAC TGA ACA

      1040      1050      1060      1070      1080      1090      1100
GTC TCA GAA AAA TAC AGA AAA TGG TTA AAG ACA GGA GGA TAC TAC CCT GAT TTC TCT GTT CAT TAA AGA
CAG AGT CTT TTT ATG TCT TTT ACC AAT TTC TGT CCT CCT ATG ATG GGA CTA AAG AGA CAA GTA ATT TCT

      1110      1120      1130      1140      1150      1160      1170
ACA GCT ATT TGG GGG GAA AAG CTG ATA CAA TTA TTT GAG CAT GTG GCT TAA AGA TTA GAC CTA TAA ACA
TGT CGA TAA ACC CCC CTT TTG GAC TAT GTT AAT AAA CTC GTA CAC CGA ATT TCT AAT CTG GAT ATT TGT

      1180      1190      1200      1210      1220      1230
ATT CAG GAC CAT CTT CCA GCA AAC TGT GTG AGA ATT CAC AGA AAT AAA CCT GGT AGG TTT GTG CTA TGT
TAA GTC CTC GTA GAA GGT CGT TTG ACA CAC TCT TAA GTG TCT TTA TTT GGA CCA TCC AAA CAC GAT ACA

      1240      1250      1260      1270      1280      1290      1300
TAT TCA CAT GGG CTG TTA ACT CTT TTC CAT TCC TAG GTC CTT TAT TTC CCT GCC CTC CAC AAT CTC ATG
ATA AGT GTA CCC GAC AAT TGA GAA AAG GTA AGG ATC CAG GAA ATA AAG GGA CGG GAG GAG TTA GAG TAC

      1310      1320      1330      1340      1350      1360      1370
CTC TTG AGA TTT TTA ACT ATA TTA CTT CTT TAC AAA GTC ATC TTC AAA ATG ATT CAT TTT GGA TAG CAA

```

FIGURE 2

SL5 Immunohistochemistry Comparison of Tumor vs Normal

	1	2	3	4	5	6	7	8	9	10
A	Adrenal	Adrenal	Adrenal	Ovary	Ovary	Ovary	Ovary	Breast	Breast	Breast
Tumor	(+4)	(+4)	(+2)	(+4)	(+4)	(+4)	(+4)	na	(+4)	(+1)
NC	(-)	(-)	(-)	wp	(-)	(-)	(-)	na	(-)	(-)
Normal	(+2)	(+2)	(+2)	(+1)	(+1)	na		(+1)	na	na
NC	(-)	(-)	(-)	(-)	(-)	na		(-)	na	na
B	Colon	Colon	Colon	Colon	Prostate	Prostate	Prostate	Prostate	Uterus	Cervical
Tumor	(+4)	(+4)	(+4)	(+4)	(+2)	(+3)	(+3)	(+3)	(+4)	(+2)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Normal	(+2)	(+1)	(+2)	(+3)	?	(+2)	(+1)	(+2)	(+2)	(+2)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
C	Kidney	Kidney	Kidney	Kidney	Pancreas	Pancreas	Pancreas	Pancreas	Lelomyo-	Lelomyo-
Tumor	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	EDG	EDG
Normal	?	?			(+1)	(+1)	(+2)	(+1)		
NC	(-)	(-)			(-)	(-)	(-)	(-)		
D	Liver	Liver	Liver	Stomach	Stomach	Stomach	Lymphoma	Lymphoma	Lymphoma	Lymphoma
Tumor	(+4)	(+4)	(+4)	(-)	na	na	(+4)	(+2)	(+2)	(+1)
NC	(-)	(-)	(-)	(-)	na	na	(-)	(-)	(-)	(-)
Normal	na	na	na	na	na	na	(+1)	(+1)	?	(-)
NC	na	na	na	na	(-)	(-)	(-)	na	(-)	(-)
E	Seminoma	Seminoma	Seminoma	Thyroid	Thyroid	Thyroid	Thyroid	Fibro-	Fibro-	Fibro-
Tumor	(+3)	(+4)	(+4)	(+4)	na	na	(+4)	(+4)	(+4)	(+4)
NC	(-)	(-)	(-)	EDG	wp	EDG	EDG	(-)	(-)	(-)
Normal	(+2)	(+1)	(+2)	(+1)	(+1)	(+2)	(-)	(-)	purk(+)	(+2)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	na
F	Melanoma	Melanoma	Melanoma	Chorio-	Carcinoid	Chorio-	Basal Cell	Basal Cell	Basal Cell	Germ Cell
Tumor	(+4)	(+4)	(+4)	(+4)	(+4)?	(+1)	(+3)	(+3)	(+1)	(+4)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	EDG
Normal							(+1)	(+1)		(+1)
NC							(-)	(-)		(-)

Staining Intensity: -, no staining; + weak; ++ medium; +++ strong staining

Staining Percentage: 1: 0-25%; 2: 26-50%; 3: 51-75%; 4: 76-100%

For example: (++3) stands for 51-75% of cells have medium staining

NC: Negative Control, na: no tissue materials on slides

FIGURE 3

SEQUENCE LISTING

<110> Zhang, Jimmy
Astel, Jon H.
Carroll III, Eddie
Endege, Wilson O.
Ford, Donna M.
Monahan, John E.
Schlegel, Robert
Steinmann, Kathleen E.

<120> GENES AND GENE EXPRESSION PRODUCTS THAT
ARE DIFFERENTIALLY REGULATED IN PROSTATE CANCER

<130> 200130.463

<140> US

<141> 1999-06-11

<160> 339

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (1024)

<223> n = A,T,C or G

<400> 1

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ttaagagacc	atcctggcca	acatgatgaa	accctgtctc	tactaaaaat	acaaaaagta	180
gctgggcgtg	gtggcatact	cttacaatcc	cagctacttg	ggaggctgag	gcaggagaat	240
cacttgaacc	taggaagcag	aggttgcagt	gggccaagat	cacaccacta	tactctagcc	300
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tatatgaacc	catctaaatt	ctacgttggt	aaaggtagct	taggttaatt	agtctatact	420
tattttaagac	caatatgggg	tgagatggat	ttttttttta	aaaatcctac	agtaaggctt	480
tctactttcc	ttctaattgag	gaaaaagggtg	acaaaaattc	aagtgtcaat	gtccccttcc	540
tgggaagagg	tttagaaaaa	caacagctca	ccttctgaac	tctaccagtt	ccttttgaag	600
ttaacgaagc	attaaaatca	gatgtaaaaa	aagaaaaaaa	aaggcagggg	aatattttaca	660
aaactggaca	ttcttttacag	atatacaatc	ttgctaatac	tgggagaacc	nttccaagga	720
tgtataaaga	ggagacgnca	ccttagtaat	gccagggata	gagaaaaacc	nggatataat	780
atggggtttt	taatgccgga	acatggnnga	aactaggang	agccgagatg	ganctgggtcc	840
ctgaagtga	ctgggttnagn	tattctgggn	accctcagga	gggccttgca	agtgtgtggg	900
taggnaaaaa	actgggctgg	gcaaactact	tggntncaag	tttttttatg	ggagaccgaa	960
caacctggga	aggcttaaan	gcaagnnggt	cgnnttttaa	ttaaaaggct	gggccaat	1020
accc						1024

<210> 2

<211> 1024

<212> DNA

<213> Homo Sapien

<220>
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<222> (1)...(1024)
<223> n = A,T,C or G

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ncatcctaen acgactcact atagggcagt gacgaaaggt acnncgngga ngnttnntgg 120
ntangcgatc agctattgna cggaaatctct gtganantga nnagctnana tcntctccan 180
ggaanaacag ntccncaang ctntattnga gacagagcta tgacannnnc ntntntactc 240
ngacagtcct taggaaccnc gcaantgana nngngnggat gcnactagga nctgncncnn 300
ntagnagagc agccccgttg ataatgccc tggtagcngc nagctgnaaa gccgcctgca 360
gaccgaacct gagactgacg tcgcctcanc tatngacnnn nnnccnatnn tgagtgnaag 420
cgtntctnat ngacactcgg ggnccacgat gcanancgct ancnccccnn ggngtgncan 480
tnagnnaten ttgcncatat tncgnatntt gacatgtgta atgatngaga tctcatannt 540
gcactgtgct tctcatctat taacgctaaa ccatgacagt ttntcttcat tgccacntnc 600
tttcagtgc ccanatnttt atcgctanat attcnatcct tcaacngtag cattnttctt 660
gctnttcttt nccnaaagca tcttctttcc caactcactc cagggccaaa tactctcanc 720
cnnctcactn tangntctcn gntcacggtc tttcccgta caggtcattc aattcccctc 780
gnaagctanc ccaggcccaa ctttnttctt cttcacgggn nntaacttaa tectggggga 840
aggnaangcn nggntcttta gccttgntcc agaaccttng gtagccccgg ncacaaatcc 900
naaaaacctt tgcaggtttg ggggttgac cccgggncct ttttcccg gtnggggtta 960
ngnggggaac cgnattttta nnatngacca aggaaggctg gggtcctttg gaaagncccc 1020
cngg 1024

<210> 3
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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tcctaatacg actcactata gggctcgagc ggccgcccgg gcaggctcact gggtttttct 120
cctttttagt ccttttctct tagtctctc tccccggtgg ttggtaaaaa gaggtgaatt 180
gacagcctat gttgaagaca ctgtgctttt ctcaagaagg acatccaaac agcaagtcta 240
cttctttctc tttaacgatg tgctcattat caccaagaag aagagtgaag aaagttacaa 300
cgtcaatgat tattccttaa gagatcagct attggtggaa tcttgtaga atgaagagct 360
taattcttct ccagggaaga acagctccac aatgctctat tcaagacaga gctctgccag 420
tcacctcttt actctgacag tccttagtaa ccacgcgaat gagaaagtgg agatgctact 480
aggagctgag acgcagagcg agcgagcccc ctggataact gccctgggac acagcagcgg 540
gaagccgcct gcagaccgaa cctcactgac ccagggtggaa atcgtaggt catttactgc 600
taagcagcca gatgaactct cctgcaggt ggtgacgtc gtcctcatct atcaacgtgt 660
cagcgatggc tggtaggagg gggaacgact acgagatgga gaaagaagct ggtttcctat 720
ggaatgtgcc aaggagataa catgtcaagg ctacaattgn ttaagaatgt ggagagaatg 780
ggacgcttgc taggactgga gaanccacgt gagncttttn aangggcctt tggtagtgca 840
agaattgcac cgacacttac cgggcttggt ggttctgggg ctagtttaat ggnaatttgg 900
cccagncttt ttaattaaag gaccggaaac cntggccttt aactttggcc agtggtncgg 960
tntntnatgg aaaaaacttt ggtaccctcg gngttgcccc ggttagtttt acctaacccc 1020
cccn 1024

<210> 4
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 4

accgnnctcg	natccctagt	aacggccgcc	agtgtgctgg	aattcgccct	tgtatagtgg	60
tgtgatcttg	gtccactgct	acctccacct	cccaggctca	cacgatccct	cagcctcagc	120
ctccaagta	gctgcgacta	caggtgcacg	ccattgcagc	tggctaattt	ttgtattttc	180
agtagagatg	gggtttcccc	atgttggcca	ggctggtctt	gaactcctaa	gctcaagcaa	240
ttcacctgcc	tcagcctccc	agagtgtctg	gattactcct	aagctcaagc	aattcacctg	300
cctcagcctc	ccagagtgtg	gggattactc	ctaagctcaa	gcaattcatc	tgccctcagcc	360
tcccagagt	ctgggattac	tcctaaactc	aagcaattca	cctgcctcag	cctcccagag	420
tgctgggatt	actcctaagc	tcaagcaatt	cacctgcctc	agcctcccag	agtgtctggga	480
ttactcctaa	gctcaagcaa	ttcacctgcc	tcagcctccc	agagtgtctg	gattactcct	540
aagctcaagc	aattcacctg	cctcagcctc	ccagagtgtg	gggattacag	gtgtgaagca	600
ctacacccag	cccattcttc	ccttttaacc	aaggaagaaa	ttacacaatg	aaacaaatac	660
cccgaatctt	aatatcactt	ttcctttgnc	ataattaaca	attagcgaca	cagaatcgag	720
gggaaaaaca	caggatccgt	ttactcttan	gaanggcgtt	tctgtgaatc	taagaagggg	780
cttttctgng	gtctcaaggn	cacgggtcaa	gccagggtgg	ccgcttgctg	ggtgcgctgg	840
ctggggagaa	actnttcggg	gatnggaagt	gaaannggtt	ccgntcgggc	ccccttnttt	900
tgggaaaccc	caggngngtn	tngcaaaggc	caagggaaa	gcctcaaggg	ggggcatgaa	960
ctttgnagct	tccaactttg	gttcctntan	acnngggggg	gccctnatgg	cccaaaaagg	1020
gctt						1024

<210> 5

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 5

gccgtcnaga	cnctgtcngn	agcgnncgnc	ngtgggatgg	nnaantgcng	annncgccc	60
tccttcctaa	tacnactcac	tataggcggn	agnggccacn	tcnagctngn	gnnngaagtt	120
ggnnctgngt	gnagtctgtg	cctgnggcan	cgcgtcatgc	atgactttgg	gtcattgtctg	180
ctctccttgc	ctttagggga	gggtcctggt	gctctgtgag	cagattngac	cctaggggtg	240
aagtcatctn	gccccgttgc	tgagccgaga	gctggncagg	gngcgtctca	catcattcct	300
ctgccccctg	ngncgcatgg	gaaatcctaa	acaggctctg	tggnaaangc	tgnnccaagg	360
cgctcctctg	gcagncganc	catcagngga	tcggnagccn	ngaancgatg	gccccggaaa	420
accaaaccag	gaannaanca	caccgtgcga	aaggnattgg	tgaacgaact	gaaaaattgt	480
aaagctctta	aggactttca	tgcttgcng	nattnantga	canaaaatca	ctganncann	540
gaacataaag	aaatagccat	ggangattca	cagtgtanct	ngctgancng	ctcatntggc	600
cncaagnnat	gtttactna	cgnagncnca	atganctggt	ccttgntnng	gctggcttgc	660
ttttctgngc	aaaacttggn	ggncctttaa	ttgggcttan	cccaacnaca	agacttcctg	720
ggaaaacngg	gnanntagga	antttgnaag	gacaaccaaa	ggaaactgga	agggaaacaa	780
ttttttggtt	cccaaaaccg	ggccaagatt	gggcttcaaa	aancctttga	accngggggg	840
ncaattnttn	gggnttanat	ccccgaaaag	gaanngggan	ggtnttnaag	gnaaaanccc	900
nnccaaggaa	cccnggtttn	gggcntgga	agggnccttg	gncnnggttt	cgaggntttg	960
ncttaactgg	aaggncccna	aagggaac	cnnnnntttt	tnaagggntc	cccgaacccc	1020
aaag						1024

<210> 6

<211> 957

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(957)

<223> n = A,T,C or G

```

<400> 6
acgcgggggac acacagaggc gggcatttcc ctgacgactc gtgtgtgccg tgggggagcg      60
gtagatggcc cagccccaag tgttccgac ttcctgcccc aacataattct gtgacggaaa      120
gcctatgttg acctcgctccg gcaactcaagg cgtgggcagc ggcctaacgt ctgctgcggg      180
aacacagtcg cgttgaatgc tattctcaag acagacaaaa cagtgggaag acactacgcc      240
aagctgctaa ctccctggcc attgccggac tctttcacc ccatggactt tccgctggca      300
ttttaaacaa catagtctct tttctctgtc tctttctctt tccctctctc tttctctttc      360
tctctctctc tctctctctc tctctctctc tctcaatctc ataatttctc tctctctgtc      420
cacgttccca cccaacgctc totcgcccac ttctactggg gcccaacttc tctcctgtc      480
tctctgtctc aacgtgattg actttcttgt gctgencagg acttcttgcc cacgtgcgcc      540
ttcaanacgg taaagagctg caactgaacg tgtgagacat ggtgcanata aggctgagag      600
ggcggngggg gagatgcccc tgaactcaag tacctgcccc gccngggccc tcgaaagggg      660
gaattccagc aaactggcgg ccgttactan tggattcgng ctccgggtaca ngcttggggg      720
aatcatggtc aatantgggt ttctgtgggt naaattgggt ntccgggtca nnaatttcaa      780
nannanatan naagcncggg aancataaan ttgttaaagc ccnggggttc cctnaatnan      840
tttgncttan tnnaacntta aattngngnt tttnncnncan annngcngnt ttttcaattc      900
cgggaaanct ngctntnngn agctngcatt atcnanttcg ggccaaangc gcggggg      957

```

```

<210> 7
<211> 1024
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 7
cttggcaccg ccctcggatc cctagtaacg gccgccagtg tgctggaatt cgccctttag      60
agtatagtgg tgtgatcttg gctcactgca acctccacct cctgggttca agcaatgctg      120
cctcagcctc cccagtagtt gggactacag gcgtgtgcc aacacaccgg ctaatttttg      180
tatttgagc agagacgggg tttcatcatg ttggccaggc tgggtctcgaa ctcttgccct      240
caagtgaacg gccctgctca acctcccaaa gtgctgggat tacaggcggt agccaccgca      300
cctggcctct atgctcgaat ttctactctt agctaattct tctaacacat atgcccttca      360
ttgggtaaag ctggctcagc agactaatta cacctgtcat gtaatacaag cctctccctg      420
gcctgtatta tctcatggtt gccttctatt tgtgacaagt gctatgaata ttctttttta      480
agaagtgata caaaatcttt ttttttttct tgaacaggat ttttaactca gacagtgtaa      540
acatcatgac aattctggaa tgtctgaagt ttgagataga agattgtcta agaaaagctg      600
agattgnctt agctgtttgt ggtatccgaa ttctcttgga acatgggcat cagggaacca      660
gcgatgccac tgctactggg cagggttttt atattttacc taaacagaga ccaatgacgc      720
tgacctacct taatgaaaaa ttcagaaaaa ccatctggaa tcagcccat catgtccaga      780
attggaangg aatctgggga tcaatggaac ataccgggaa atactttnt tcccccaaa      840
ccaagznaat ggaatgtcaa aagtattgga gcctaattta aaatggggnt tccntantaa      900
agntttgctt tcanttaatg ggancanttg gcnanntggt tttgggnacc cctgcataat      960
ttaaacggng nggccagttg gccaaaccaan atttcancng gaaagggggg attttaaaag      1020
cccg      1024

```

```

<210> 8
<211> 1024
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

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<400> 8
tagangcatg ctgcagcggn ccgtcngggg gntgganctn tgcgagactn ngcccttnca      60
tactangacg actnactata ggnnnngtnc agtgcgtcgc gatcgggtgt agggttatan      120

```

```

ngcngnnggn ntncntnttg agagntnnngn ngctnanctg ctatgntctc ntggatnnnc 180
tntgcccgcga gaaaatnaat gcgttttgaa cagttttagn tttgtgcctc atanattgtg 240
tnantgctat ncattatnnn gnntgcata ntantctnna nngccncaa ggcatcgcn 300
atggnctaac atctcaaac nccttancct acannganc nntgtggnan actttgngn 360
ggnantgtgg ntaaaagnac canggggna atcctggntc agancnctan aaagcattgn 420
ttactacaac tggctcttga atatccccct gcgctgatat ttgtggtcag ctgcctacag 480
ttgaatatgc agcgtnacac annnaagct gccagtgtca caattaactg aagcatnact 540
tantntgtaa ncacnatcta anttngcatc agtntctcatg acatncatta catgggacag 600
gggcaagagc agtagctctg gtatgtgaca ttgatcccca gatgccttcc caatctggac 660
atgatggggc tgnnttccca atggttacnc tgaaaaatgca ttaagggagg tcagcgtcat 720
ttgtctcatg gatacgnaaa aatctcttnc accctgncca tnaacaggng gcaatcgctt 780
gnggncctga tgnccatggt ccaaaaggaa tccgatgcca nnagcngctg ggacagtctt 840
aagcttttct tcnccacct tctatcttga acttncanac gtttccggaa acnccaanga 900
nngttaccac ttgcngacc taaaaaacnc tgttcacgaa nttnaacttn ggatttngga 960
acnctttctt tanaaagggt tatccattgc nctttgtgnc caaataggan ggccnccctt 1020
nnga 1024

```

```

<210> 9
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 9
accgccctcg natccctagt aacggccgcc agtgtgctgg aattcgccct ttagagtata 60
gtgggtgat cttggccac tgcaacctct gcttccctagg ttcaagtgtat tctcctgcct 120
cagcctccca agtagctggg attgtaagag tatgccacca cggccagcta ctttttgtat 180
ttttagtaga gacaggggtt catcatgttg gccaggatgg tctcttaact cctgccctca 240
agtgatccac cagagaggag atcctcgcc tccccaaagt ctgggattat aggcacgagc 300
caccgtgccc agcctacttt ctaattaacc aaaaaaaaaa aaaaaaaaaa aaaaaagcg 360
gccgctgaat tctattctag aattaagcgg ccgctgaatt ctagacctgc ccgggcggcc 420
gctcgagccc tatagttagt cgtattagga tggaaaggcg aattctgcag atatccatca 480
cactggcggc cgctcgagca tgcantaga gggcccaatt cgccctatag tgagtctgat 540
tacaattcac tggccgtcgt ttacaacgt cgtgactggg aaaaccctgg cgttaccacaa 600
cttaatcgcc ttgcagcaca tcccccttcc gccagctggc gtaatagcga agaggccga 660
ccgatcgnc tccaacagt tgcgcagcct gaatggcgaa tggacgcgcc ctgtagcgcc 720
gcattaancc gccggcgggt gtgggtggtta cncgcancg tgaaccgnta cacttggcan 780
gngcctacgg ccgnttctt ttcttcttct tctcttctt ttnttgnca cgtttcgcc 840
gggttttccc cggtnaagct nttaaattng ggggttccc ntttangggg tcccgaantt 900
anngccttta acgggacctt ggancccaa aaaactttgg tttanggggg angggttcac 960
cgtaannggg nccatttgc ctggntaaac nggtttttt ccccnttgac nttgggnanc 1020
cccg 1024

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<210> 10
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 10
gccgtcnaga nccatgcnnn agcngcggc nggtgtnatgg nnanntgcag aanacgnctt 60
ncnatcctaa tacgactcac tatagggtcn gagcggncca ccggacagng nttnnggtgg 120
ctnatgccta naatcccagn acttggggag gccnaggatc tctntnttgg tggatcactt 180
gagggcagga gttaanagac catcctggcc aacatgatga aaccctgtct ctactaaaaa 240

```

tacanaangt	agctgggcgt	ggtggcatac	tcttacaanc	ccagctactt	gggaggetga	300
ggcaggagaa	tcacttgaac	ctaggaagca	gaggttgacg	tgggcccaaga	tcacaccact	360
atactctaaa	gggcgaattc	cagcacactg	gcgnccgtta	ctagaggatc	cgngctcggt	420
nccaagcttg	gcgtaatcat	ggacanagct	gttnccctgtg	tgaaatgggt	aancgctnac	480
aanntnacac	aacatacnag	ccggaagcat	aaagngtnaa	gcctggggng	cctaataagt	540
gagctaactc	acattaattg	cgttgcgctc	actgcccgtt	ttncagntcg	ggaaacctgc	600
cgtgccagct	gcattaatga	atcggccacg	cncnggggag	aggcggantg	cgaatgggcg	660
cttcttncgn	ttctcgctta	ctgactngat	gcggttcggc	ccattgnntg	cagcaaagcg	720
gnatcngctc	acttnaaagg	cnggnaatnc	cggttntccc	cntgaatccg	ggggattacc	780
gcaggtnaag	aaccatgggg	anccaaaagg	ccagctaaaa	gggcccggga	acccggaaaa	840
aaggccccngt	tggttgccgt	tttttcanaa	ggttccgccc	ccttgaccgn	ngcnttacia	900
aaattnggag	gcnttaaggt	cnnaantggg	ggaaaccccc	cgggaaattt	caggntnccc	960
nggggtttcc	cctgggaagt	tncttngggg	gctttccnnt	tcnaaacctg	gcgnttaccg	1020
gnaa						1024

<210> 11
 <211> 1024
 <212> DNA
 <213> Homo Sapien

 <220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 11						
gtncgtctag	atgcatgctc	gagcggccgc	cagtgatgatg	gatattctgca	gaattcgccc	60
ttgagcggcc	gcccgggcag	gtacgcgggg	gggcatttcc	ctgacgactc	gtgtgtgccc	120
tgggggagcg	gtagatggcc	cagccccaag	tgttccgatc	ttcctgccc	aacatattct	180
gtgacggaaa	gcctatgttg	acctcgctcg	gcactcaagg	cgtgggcagc	ggcctaactg	240
ctgctgcggg	aacacagctc	cgttgaatgc	tattctcaag	acagacaaaa	cagtggggaag	300
acactacgcc	aagctgctaa	ctccctggcc	attgccggac	tctttcaccc	ccatggactt	360
tccgctggca	ttttaaacia	catagtttct	tttctctgtc	tctttctctt	tctctctctc	420
tttctcttct	tctctctctc	tctctctctc	tctctctctg	tcaatctcat	aatttctctc	480
tctcgtgcc	cgttcccacc	caacgctctc	tgcgccactt	ctactggggc	ccacttctct	540
tctctctctc	tctgtctcaa	cgtgattgac	tttcttgtgc	tgcccaggac	ttcttgccc	600
cgtgcgcctt	caaaacggta	agagctgcaa	ctgaacgtgt	ganacatggg	gcagataggc	660
tgagaggcng	cgggaaaaat	gcccataaaa	ctcaaagtac	tcnngccggc	ganacagcta	720
angggngant	ttcaagcaca	nnnggcgggc	cgttactaan	tggaattcgaa	cctccggtaac	780
caaaagcttg	ggcgttaatc	atgncaanaa	gccgttttcc	ngtnttaaat	ttgttnancc	840
gctcananat	tccanacaa	cnattacnan	gccgggaaan	ccaanaaagt	tgtaaaacc	900
ctgggggttg	ccnnaatgan	ttgangctaa	ntccnnttta	atttncnttg	cncnaangg	960
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tccc						1024

<210> 12
 <211> 957
 <212> DNA
 <213> Homo Sapien

 <220>
 <221> misc_feature
 <222> (1)...(957)
 <223> n = A,T,C or G

<400> 12						
actttttttt	ttttttttt	ttttttttt	tttttagctt	tatttttatt	gttgacacta	60
ttacagatag	aatgaccaca	accatattaa	caaaccacaa	acctgtgcac	agaaacaaga	120
tgaagaaaat	atatcaagat	gttaaccaca	ctctttggat	ggtgaaaaca	tgggtgagtt	180
tctcttctac	atttctgtaa	cttcaaagtt	tctataatga	acacatttca	tatataatgg	240
aaatatatgt	agtaaaagtg	gactaccaaa	acactagaat	gatgaccttt	caaggaaacc	300
gaaacaaaat	aaccataatc	ccacaacaac	cacacaacta	tttcttgttt	ttcatctttc	360

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ttcccatctt tgacatttat gcatacttat cactaacacc ctaataatca cagactagt 420
cacagatcaa gatgttaaca gttaattggt gttgggtgtt ggggaatatgt gtgaattttc 480
tttactgaat ttccaaagt ttgtatgagt atgtantata tttgtaatgg aaaatacata 540
cataagaatt tantaccaa nacaccaaag attatttaag gaatttgaga caaaaatatt 600
tanccaaatt ccacaaatga caacaccaan tttaggtant ttccacatct ntttcaaatt 660
taanggcttt angcacacat attttaacac tgggtanccac aagcngtggt gcnccggaan 720
caannngntng agggaaacca ggtncaaagga tggtnanccan taagttgtta angggggttg 780
gaanannngn aattttttaa aacanattta cnttaanttt ccaagttttt cncccgggga 840
annttttng gccaccaatg ggggnncccc nttatanccn ngtnanccgg ggacattttt 900
tnnnngggaa atttnganaa atttagagt ngaaangntt tttaccaaan agtnccn 957

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<210> 13
<211> 1020
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(1020)
<223> n = A,T,C or G

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<400> 13
gtgngtctag atgcatgctc gagcgccgc cagtgtgatg gatatctgca gaattcgccc 60
ttcgagcggc cgcccgggca ggtacccagg attcaaaagt catcttcccc ggccgggaggc 120
aagggaagct tatggagaac ctcttaaaga tattgtgagc attctactca ttacttaggg 180
aaagagagcg ggtgttggtc caactctggc tttgtgcca ggtaggagtt ggtcctgagg 240
ccgcccattc gaccatactg gacctgtttt aaggtttttc tctaaaaaaa ttttagattt 300
gtcaatctgt gctcctgcag gggatgctat gtccaaatgt cccaggattt gtttttttct 360
gtctttcctg agacattccc tgcccagcta cccaaggaa ccttcaaagc agcaaactcg 420
accatatctt ctatggtcag attaaaatct tccatggctc cctattgctt atgggacaaa 480
atcaaaattc ctgagctctg tctaaaaggt gtttgatgat cttgacctgc tgactttgcc 540
agccttcttg tcagactctc gtgtcatgct ccgcctagac tatgagcctg ctatttcata 600
ctatgtagct ttgtaaagtc ccagaaaatg ctgggctctg actcttttat aactttacat 660
atactgttcc atctgcctgg aatgccttct acttgtctgt ccagcaaatt ctcaactcat 720
ctcttaaggg cccagcttca attgcgcct cctancataa gtcttccctt gatttcccan 780
gcagnaatta nntcccgcgt accccgggga ntcccaatca gtttgtgctt tcaaaactga 840
tggnnngact tccctgaaat ttgggttacc ncaaaacgaa atgggtgaat ccnnttcccc 900
cgggggggct gcaattgcac ccttttttaa aggggaaccc tgnaaantcc aatggnttaa 960
atttgacncc ctaanggc nanttcnat tgagcaactt naaaaggggt tttttttttt 1020

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<210> 14
<211> 1013
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(1013)
<223> n = A,T,C or G

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<400> 14
gtgtcgatgc atgctcgagc ggccgccagt gtgatggata tctgcagaat tcgccctttc 60
gagcgccgc cggggcagg acctcattag taattgtttt gttgtttcat tttttcnaa 120
ngtctccct ctacnagctc acctgagata acagaatgaa aatggaagga cagccagatt 180
ttctctttgc tctcngctca ttctctctga ancctaggtt acccattttg gggaccatt 240
ataggcaata aacacagttc ccaaagcatt tggacagttt cttgttgtgt tttanaang 300
ttttctttt tctnancctt ttctgcaaa aggctcactc agtcccttgc ttgctcantg 360
gactgggctc cccagggcct aggtgcctt cttttccatg tcccacccat gagccctcna 420
ctagacagct cantaagcct ggccttctcat tctgcgctgt gttcttctc ngtgaaaac 480
caatacctct tacctcctct gcatgcaaag attctcaagg attgtcagac ttcaaagcta 540
acagcagaac caccagaagg tccnataaat gcagtagtga ccttctcaag ctgtcaggtc 600
tttaaatagg atttgggatt taatgcnatg tattttttaa ggaaagaaat aagagttgcn 660

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agtttaaaaa	tgcattgtctt	ttagccaatt	cagaatcctg	ccccaaaact	tttttaaaaa	720
gtcaagacag	ataaagcttt	ggggganacg	gaaaaaaann	gnnnaaaaaa	anaaagtact	780
tcgggcggn	acnacgctaa	gggnnaattc	agcananggg	gggccgttac	aagnggggtc	840
nanncccgg	acnaancctt	gggggtttta	caagggcnaa	ancnggttnc	cggggntnaa	900
aattgttacc	cgcnaaaaa	tccanaaaaa	natncgaacc	cggaaancca	taaantntn	960
aancccnngn	ggccnaaggg	agnnnnaac	ccnaataaa	tggnttggn	cnt	1013

<210> 15

<211> 951

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(951)

<223> n = A,T,C or G

<400> 15

accctagggc	aaatactgag	cagggtaaaa	ttcccagaat	accctactaga	agcgtggaat	60
atatcaatat	cctaggaaga	agattcagca	caccaaattt	cccattactg	ataacagctc	120
tgaaggcata	ataagaaagt	gagtgatcag	aagagcagag	aatgacttg	ttccagtcac	180
tgccatcttg	tttacccttt	cagtgggtcc	cttacccttt	tccccactgg	gcatacagct	240
catctctctc	tgagtccttt	tctgctttcc	tcctttgtct	taaacgttcg	agtttcaaat	300
tcctcttacg	accagactta	tctcgaaata	cggtttcagc	atattgaaat	tcagctgcaa	360
aggaaaatta	tactcaaata	tcaggatcaa	aatcagaaat	aacattctaa	gagatcaaat	420
caaccgcttg	ggatttcta	gctagataag	aacttctgca	gccagaccaa	agtagttcct	480
accaacatct	tggtgcata	tggcactggg	cccaagaaat	ggcattttcc	tttttttttt	540
ttttgagatg	gagttctact	ctgttgccca	gggtggagtg	cantgggcgc	gattttggct	600
cactgcaacc	tccacctccc	aaggttcaag	cgatttctct	gtctcaagcc	tcctgagtga	660
gctggggaat	acagggcata	cnacancatg	cctggctagt	tttttttttg	gaattttggn	720
tagagacagg	ggtttcatca	nggttngccc	aggcctggtn	cttggaactn	anagaccctc	780
aggntggatt	caacccaact	tccgggctac	caaaaggtn	ncnggggatt	acangcattt	840
anncaacnng	gccttngggc	naaaatggna	anttttcang	aagggaagc	agcnnntggg	900
atcccnngnn	naantttcac	caaggcctta	aaccagggnc	gtaaatttgt	t	951

<210> 16

<211> 1008

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1008)

<223> n = A,T,C or G

<400> 16

gtgcgatgca	tgctcgagcg	gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	60
agcggccgcc	cgggcaggta	cattacttgg	tgtaaacatt	gttggcagtg	gtagcccctt	120
ttcagaaaag	aacttgctgt	aagtcagggt	gtccgttcca	accttcagct	agtgaagg	180
tagtaacaaa	tggtaaacaa	gagaatgatt	gtttaaacct	atctgtggac	acttaatgca	240
actgtttaaa	aatgataatc	acgagttatg	tagcaacgtg	gaaatatatt	tacagaacat	300
taagtggaga	aagcaggaca	cgaaagtata	tttatactac	agttataact	caacagttca	360
tttatatgct	gttcattttaa	cagttcattt	aaacagttca	ttataactgt	ttaaaaatat	420
atatgcttat	agtcaaaagc	tggttggttg	ttgttggttg	aggcttatag	ttgagcatta	480
ttttctttaa	tttcttgaat	gttctttatg	gtagtgttac	taaaaagtgt	atgatcacat	540
tttcattgtg	aacataatgt	gaactcatta	tcacacactt	ggaaaataca	gaaaagtggg	600
ggaaaaaaa	tcatatcccc	ancatccaaa	gacatatact	ctcctcttat	cctgttcaat	660
cctgtgttcc	ggtgcacaag	gtttatgatt	ataactgtgt	caaaatgtat	aatcaaaaata	720
gctgttacat	taccttggtg	gnantaaggg	taaataacct	caccttaaat	ttttcaaaan	780
gttcccaana	ataaagggtc	ggataacagt	ggtataagtg	tgtcccaatt	gggggtgcan	840
aatacattcc	cangngggaa	aatttnnaaa	tnaagttaaa	ttatttttaa	aaatttccaa	900
aattcccaan	anctaanaac	taangggnaa	aaacctngat	cgggntnccc	caaacnngtt	960

taantggnac nccttgggaa aanaagnttt aaaaanggtg gcaaaaaag

1008

<210> 17
 <211> 1024
 <212> DNA
 <213> Homo Sapien
 <220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 17
 gtgncctctag atgcattgctc gagcggccgc cagtgtgatg gatattctgca gaattcgccc 60
 tttnnanagg nccgncgggc angnantctt cccnctntg ccatnannca cggnnanaaa 120
 cngcagtggc actaantntg agacaatctt ncaaacagc ttcattgtgc tncacttntc 180
 nnnngtncaag angagggcca ggangggaaa catcacantc gcgctaagnc cngntccggg 240
 nngtcagcat nngntctgtt ncaanncccn cgtcgggtcc cctcatccta ctctgcctcc 300
 natgactttg cncctcagac ntentggaac naaggnttcc nggggggcac accgcgtccg 360
 gccgnnnntg tctcggggcc acttggcgtg tgtgataaat caatcaagct gttnanntcg 420
 nacgagtctc nggtngcctg cananntaag cctcatcatc agagcctttc ctcaaaactg 480
 gantccana tgatcagc ttntgggtnt tttcagccan naggaagccc tcngcattga 540
 atccnagaac ttgggcatgg ttnaagatct acaagntnga atacgctgcc cgcnaanaac 600
 nttcaaccct aacaggaagg tnggattcaa ggaagggtgta anggnncatt annccacncg 660
 ggggnaccac gggagntana antanncatn nntttgggtt cgcccncgga agggnnntaa 720
 cccccggaat tnnnttttng ntnaaggggg gnnnnnggna aatcccggtt cnnattttgg 780
 gaaagggann ccttnccttn cnntnggcct ntaaaagnnt tancaanacc cgnnatnntg 840
 ttnanggecc cgtttttcaa nggggttaan nnttnggggn aacccccnnc cccaaagnng 900
 gnnnaanggg ggnaattccc aanaaaacng ggggggnccct tnnnnnangg gnttcngnnn 960
 ccccnaaagg nnncttgggg ggnnannann gnncnaaaaa gggttcccn nnnnaaattt 1020
 tttc 1024

<210> 18
 <211> 981
 <212> DNA
 <213> Homo Sapien
 <220>
 <221> misc_feature
 <222> (1)...(981)
 <223> n = A,T,C or G

<400> 18
 acgcgggaca gagagaagggt taagagcaac aagatgggag gcagctgcat ggaacctgtc 60
 ccactgagga agtaaaacag agttttactc ttgttgccca ggctggagcg caatgggtgcg 120
 atctcggctc accgcaatct ctgcctcctg agttcaagcg aggagcaacc ctacctgatg 180
 gactggactt ctgcctggat tggagtttga tcatgcctcc atatgggtgt ttaccaggcg 240
 tatgcattga acctgagttt gtctcttcaa tacaaggaaa atctctgccg cttagtgtgatt 300
 ttccaagaaa catgagcttc tgcctttcaa tgaggaagat actcagaagt catgttcgag 360
 cactccggaa aatgtccttg gagtttcaac atttctttgg tcttcacat ttcattttgt 420
 cctgattaaa gaggaagcca agttgctgtt tgtgtggcca tgtgagcagg canggagatg 480
 gtggctgcct agaagccaag agaagtggcc tcaagatgaa atctaccttg ctggtactgc 540
 ccggggcggc cggccgggca aggtacnttt tttttttttt gttttttttt ggcaaaaagg 600
 ctgtaaagct tttttgggga gaaattttaa tgggncaaan tttccaacac aggnagcanc 660
 cctgaaacca atttttaagcg ggtccttccc ttttaagget gttnaattgc cccttcaanc 720
 ttctcaagg ngtttttcaac cctccncccg ggatttttgn aaaggcccaa aantccntgg 780
 gnaanaagg gacaatctcc cgggnttaaa aaccaattnt ncgggnggna accnggttcc 840
 ctgggctann cncctttaa ggnntccggg gcccttttgn gggggnaatt ttcaaacggn 900
 ncctncattt tctnaggggg naancnccct tngggtcann gggncnannn cccaaagnctt 960
 caaanccnaa ntcttttggg g 981

<210> 19

<211> 980
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(980)
 <223> n = A,T,C or G

<400> 19

acttttttct	tttttttttt	tttttccgtc	tccccaaagc	tttatctgtc	ttgacttttt	60
aaaaaagttt	gggggcagat	tctgaattgg	ctaaaagaca	tgcattttta	aaactagcaa	120
ctctttattc	tttcctttta	aaatacatag	cattaaatcc	caaatacctat	ttaaagacct	180
gacagcttga	gaaggctact	actgcattta	taggaccttc	tggtggttct	gctgttacgt	240
ttgaagtctg	acaatccttg	agaatctttg	catgcagagg	aggtaagagg	tattggattt	300
tcacagagga	agaacacagc	gcagaatgaa	gggccaggct	tactgagctg	tccagtggag	360
ggctcatggg	tgggacatgg	aaaagaaggc	agcctaggcc	ctggggagcc	cagtccactg	420
agcaagcaag	ggactgagtg	aagccttttg	caggaaaagg	ctaagaaaaa	ggaaaaccat	480
tctaaaacac	aacaagaaac	tgtccaaatg	ctttgggaac	tgtgtttaat	gcctataatg	540
ggtccccaaa	atggggtaac	ctagacttca	gagagaatga	gcanaganca	nagggagaaa	600
tctggctgtc	cttccaattt	tcaatccgtn	atcccagggtg	aagctgggta	ngagggggag	660
ancattngna	naaaaaatnga	aacaacanaa	nccagtttac	taaatnaagg	gaacctgccc	720
cngggcgggc	cnccaanggg	ccaaatttca	ancaacanng	ggcgggcccc	ttaccaantg	780
gnattccgaa	gccnccggta	accaangcct	ngngntnaat	ccagngggnc	aaanccngtt	840
tncnngngt	gnaaattggt	tancccgccc	naanaattcc	acancaacga	atcngaagnc	900
cgggcncagca	tnnangnnta	aancccgngg	ggggcncaaa	agggaatgnn	nccanaccn	960
attaaatncc	gttgccccctg					980

<210> 20
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 20

cttggtagcc	ngctcggatc	cctagtaacg	gccgccagtg	tgctggaatt	cgcccttcca	60
tcctaatacg	actcactata	gggctcgagc	ggccgccggg	caggattatca	gcggccgctt	120
tttttttttt	tttttttttt	tttttttttt	attgntgaca	ctattacaga	tagaatgacc	180
acaaccatat	taacaaacca	aaaacctgtg	cacagaaaca	agatgaagaa	aatatatcaa	240
gatgttaacc	acactnnttg	gatggtgaaa	acatgggtga	gtttctcttc	tacatttctg	300
taacttcaaa	gtttctataa	tgaacacatt	tcatatataa	tggaaatata	tgtagttaaag	360
gnggactacc	aaaacactag	aatgatgacc	tttcaaggaa	accgaaacaa	aataaccata	420
atcccacaac	aaccacacaa	ctatttcttg	gttttcatct	ttcttcccat	ctttgacatt	480
tatgcatact	tatcactaac	accctaataa	tcacagacta	gtgcacagat	caagatgtta	540
acagttaatt	gttggtgggt	gttggaataa	tgtgtgaatt	ttctttactg	aatttccaaa	600
gttttgtagt	agtatgtatt	atatttgtaa	tggaaaatac	atacataaaa	tttattacca	660
aaacacccaa	gattatttaa	ggaatttgag	acaaaatatt	taaccaaatt	cccacaatga	720
caacactatt	ttaggtattt	tccacatctt	ttcatttaag	actttatgcn	cncatattta	780
acactgggat	ccacaagcgt	gtgccctgaa	accaggatan	nggggaaacn	ngatcaagat	840
gtagccagtg	agtttggtag	gnggttgga	aatataggga	attttttnaa	aaaaatttac	900
tttatttnnc	aaattttccc	cttgggnaag	ggattatggc	nncccaangg	ngccccctt	960
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aggt						1024

<210> 21
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 21
 nagnngcang cncgagcgcg cgccagtggt atggatatct gcngaattcg ccccttcntan 60
 cngnngncac tnaatgcang ngcnnaacca tgataacccg agttatgctn agcanaggaa 120
 ctatatgtac agaaacatta agtgnggaaa gccnnacncn anggnanntg aatactacng 180
 tnataactna ncagaccatt nanatgctgc acatttaaca nnnctnncan acagnanatt 240
 ataanngnnt ananntatat atgctnatng accaaagctg tngaggggtg gccgttgaag 300
 gcnnnnngnt naggattanc atnttacnnc acttgccctgn cctntatggc aggggtacta 360
 tctttgttac tgatcacgac atcantgcca acntaanacn aacnncntat nacacactng 420
 nnanagcccg aatcgngnng gaacagtatc ntntcncnc canccnnaga catntncnnn 480
 cctcttatcn tgancattcn agnttctgtg cacaggtna tgatnntanc ngtgncaaan 540
 tgnntcttna aantanttgc cacatnacct tngaggantt atggannaan actctcactt 600
 taaanccnnc aancgacccc nanaanaactg tnctgntaac agtgcanaat gtgtgatttc 660
 atagtnttgc acacacatnc ccacnggaan cacaggcggtg tgcactgaac attntagagg 720
 ntacctatct gcgcagacct aacactacng gtnacggcaa gatcggaacc tntaannggg 780
 ttaacncaa cncatgggat acccngggaa atatgtggcc caccgtttaa acccccgaag 840
 tgcccngtac cnggacatt gtttctgtgn cgggtanttg gttaaanttg ggntnaaaac 900
 cctaattccc cctgggggtt tgccactaaa tttgaaggac cttttggccc tgccaaaatc 960
 annaacctg gcnkanaact ttggggganc nggnnaggna gggtnnccct tttttccga 1020
 aggc 1024

<210> 22
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 22
 gtgcgatgca tgcncgagcg gccgccagtg tgatggatat ctgcagaatt cgcccttttcg 60
 agcggcgccg cgggcaggtg cttttttttt tttttttttt ttttttttag attccacata 120
 tgagtaaaat catgtggtat ttgacttgcc ttttaaaaca cagtgaagaa tctgtcttac 180
 tttattcagg gtaggagaag ctacctgggc tccccataaa tgagggtgct catccccatca 240
 tacagcccca tcatattcag tgcttcccag atgacctcct caggggtgca gttagccctct 300
 atgaagatta tgcttaggat aagtatgaga atgccagtct tgggcatgct ctggacatca 360
 ctccagcatcc catcataggt gaggcccgag gaggtgacaa ggacaaaagga gtggccagtg 420
 ggatccactt cctttacatc aatgccaaaag accagcagca tgcactcgga ggcttacta 480
 aacaacaaa ggaagtggtc ttcataattt tttatgacac tctccaagta tttctgcctt 540
 tgtgatcgcc tcttctattt gatacttgaa gagcagaaac tgcaccaaatt cagtcacctt 600
 ttcattctatc tcaattctgg gtaaaagactc actgtctggc aaggacctgg taggggtgctt 660
 gggactcccc tctttttggc tgcngggagnc ctcanagat tgatctaag gaagggaaac 720
 aacgaccnaa ggggaaggag cagggtctatc tngagcaacn ctggggaagg atttgggggtc 780
 nccatcatca ngcagnaaac tccctcccgg gggtnccttg ggnanttaaa gggatnccca 840
 ggaaggagga nggaggggan agggaggang agggaaaaac naggntngga aaaagggacn 900
 cggnggggaaa ttggggntta tacaccgccc ncnnaannnn gggngagnc ngngnccng 960
 tcngngnccn gnttccnntt gggngaagnn ggnttctcnn angggncgnn nnnnnnnnc 1020
 cnnt 1024

<210> 23
 <211> 948
 <212> DNA
 <213> Homo Sapien

<220>

<221> misc_feature
<222> (1)...(948)
<223> n = A,T,C or G

<400> 23
acttttttct tttttttttt tttttccgtc tccccaaagc tttatctgtc ttgacttttt 60
aaaaaagttt gggggcagat tctgaattgg ctaaaagaca tgcattttta aaactagcaa 120
ctctttattc ttctctttaa aaatacatag cattaatccc caaatcctat ttaaagacct 180
gacagcttga gaaggtcact actgcattta taggaccttc tgggtggtct gctgttacgt 240
ttgaagtctg acaatccttg agaatctttg catgcagagg aggtaagagg tattggattt 300
tcacagagga agaacacagc gcagaatgaa gggccaggct tactgagctg tccagtggag 360
ggctcatggg tgggacatgg aaaagaaggc agcctaggcc ctggggagcc cagtccactg 420
agcaagaag ggactgagtg agccttttgc aggaaaaggc taagaaaaag gaaaaccatt 480
ctaaaacaca acaagaaact gtccaaatgc tttgggaact gtgtttattg cctataatgg 540
gtccccaaaa tgggtaacct agacttcaga gagaatgagc agagnagcaa aggagaaatc 600
tgggctgtcc ttccattttc attccgttaa cctcaagggtg anctggtaaa agggggagaca 660
ttagaagaaa aatgaancaa caaancaatt actaatgang tacctgcccg gggcgcccg 720
aaagggcgaa ntccaagcac acngggcggg ccgttacaan tnggatttcg aaccgggtac 780
caaanctgg gngtaancaa nggncaana accgnttcc cgggggtgaa aantgtttat 840
ccgccccaaa attccaaaaa ancaatanga aaccggaaan cataaagtnt taaaccctgg 900
ggggggccca aangantgag ccaaanccca attnaattgg gttggncc 948

<210> 24
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 24
taccgccctc gcatccctag taacggccnc cagtgtgctg gaattcgccc ttctatctg 60
tggacactta atgcaactgt ttaaaaatga taatcacgag ttatgtagca acgtggaaat 120
atatttacag aacattaagt ggagaaagca ggacacgaaa gtatatattat actacagtta 180
taactcaaca gttcatttat atgctgttca tttaacagtt catttaaaca gttcattata 240
actgtttaaa aatatatatg cttatagtca aaagctgttg tgggtgtgtt gttgtaggct 300
tatagttgag cattattttc ttaaatttct tgaatgttcc ttatggtagt gttactaaaa 360
agtttatgat cacattttca ttgtgaacat aatttgaact cattatcaca cacttggaat 420
atacagaaaa gtggaggaaa aaaaatcata tccccaccat ccaaagacat atactctcct 480
cttatcttgt tcattcttgt ttctgtgcac aggtttatga ttataactgt gtcaaaatgt 540
atattcaaaa tagctgttac attacctttg tggaattatg gttaaatact ttcactttaa 600
ttttttcaaa tgttccctat aataatgtcc tgataacagt gtattatgtg tgtctccatt 660
gggtgtgcata atacataccc agaggaaaaa ttagaaaaa aagtaaatat ttttaaaaaa 720
ttacctatat tcccaacacc taacaactac tgnttaacca tcttgatctg ntctctctat 780
cttggttcag tgcacacgct ttgngaataa cagtggttaa atatgtgtgc cataaaggcc 840
ttaaatggaa aagatgtggg aaaaataact taanaataag ggtggccttt ggggggaaat 900
ttggttaaaa aattttgggc tcnaaaattc cnttaanaaa acctttgggg gggttgggna 960
ataaaaatnt taanggangg aatnttcccn ttccantttt nattccttcc tcttcccaaa 1020
actt 1024

<210> 25
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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<400> 25
gccgtcnaga cncatgcncn agcgnncgnc nggtgtgatgg atathtgcng aattcgnccct    60
tccatcctaa tacgactcac tatagggctn nagngngcca ctattnncga tngaangacc    120
acngccatat taacaaacca aaaacctgtg cacagaaaca agatgaagaa aatatatcaa    180
gatgttaacc acactctttg gatggtgaaa acatgggtga gtttctcttc tacatttctg    240
taacttcaaa gnttctataa tgaacacatt tcatatataa tggaantata tgtagnaaag    300
gnggactacc aaaacactag aatgatgacc tttcaaggaa accgaaacaa aataaccata    360
atcccacaac aaccacacaa ctatttcttg gttntcatnt ttcttcccat ctttgacatt    420
tatgcatact tatcactaac accctaataa tccagactag tgcacagatc aagatgttaa    480
cagttaattg cngntgggtg ttgggaatgn gcgtgaattt tctttactga atttccaaag    540
ttttgtatga gnttgatna natttgtaan ggaaaataca tacatnaaat ttattaccaa    600
aacaccaaag attatttaag gaatttgaga cnaaatattt aacccaaatt ccacaatgcc    660
aacactnttt taggnatttt ccacatcttt tcntttaaga ctttatgcnc cccataatgt    720
aacactggta tcacaaagcg tgtgcactga aaccagggat nnagggaacc gancaagatg    780
ttnnacgnag ttggtangng gatnggaaaa taggnaattt ttaaannaat tnacttttat    840
ttccnanatn tccctttggg gatgncttat gcncctccat gggggncccc ctttanance    900
ctggtaatca nggcnntttt ttttggggaa ctttgggaaa aaanttnaag gggaangttt    960
ttaccataa tttcccaaaa ggnanggggn acnctntttt ggaanatect ttnggcnccct   1020
tttn                                     1024

```

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<210> 26
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 26
gtgcgatgca tgcncgagcg gccgccagtg tgatggatat ctgcagaatt cgccctttcg    60
agcggccgccc cgggcaggta cttttttttt tttttttttt ttttttttag attccacata    120
tgagtaaaat catgtggtat ttgacttgcc ttttaaaaca cagtgaagaa tctgtcttac    180
tttattcagg gtaggagaag ctacctgggc tccccataaa tgagggtgctc catcccatca    240
tacagcccca tcatattcag tgcttccag atgacctcct caggggtgca gtagccctct    300
atgaagatta tgcttaggat aagtatgaga atgccagtct tgggcatgct ctggacatca    360
ctcagcatcc catcataggt gagggccagg gaggtgacaa ggacaaagga gtggccagtg    420
ggatccactt cctttacatc aatgccaaag accagcagca tgcactcgga ggcttcacta    480
aacaacaaag ggaagtggtc ttcataattt tttatgacac tctccagtat ttctgccttt    540
gtgatcggtc ccttcatctg atacttgaag agcagaaact gcaccaaact agtcaccttt    600
tcacttatct cacttctggg gtaaagactc actgtctggc aggacctgta ggggtgcttg    660
gactctcttc cttttggctg ctggagccct caacaagatt gatctaattg gaagggaaac    720
caaccnaccg aangggggang gagcaggctn ttctgaagca ctctggggga aggatttttg    780
ngtncncnat catncagcan gnaaacctcc cncggggggt gccttggnna ttananggtt    840
agcaaggang gaggacgnag gaananggan gnangnaggg aaaaagangg attggaaaaa    900
aggganccctn ggtgggaaat tggggttttt nagcaatccc cnccaaaaaa ncnaggggaa    960
ccctgttcaa cccncanggc cnggnttcca cttttggaat ttgaaanttt cctcaaggaa   1020
ngaa                                     1024

```

```

<210> 27
<211> 935
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(935)
<223> n = A,T,C or G

```

```

<400> 27
acgcgggggtg ggggggggtcc tggctctttg cttctcgact cggctctgtt tcgacagcga    60

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acatgtcgcg	gcctgtcaga	aataggaagg	ttgttgatta	ctcacagttt	caggaatctg	120
atgatgcaga	tgaagattat	ggaagagatt	cgggccctcc	cactaagaaa	attcgatcat	180
ctccccgaga	agctaaaaat	aagaggcgat	ctggaaagaa	ttcacaggaa	gatagtgagg	240
actcagaaga	caaagatgtg	aagaccaaga	aggatgattc	tcactcagca	gaggatagtg	300
aagatgaaaa	agaagatcat	aaaaatgtgc	gccacaacg	gcaggcgga	tctaaagcag	360
cttctaaaca	gagagagatg	ctcatggaag	atgtgggcag	tgaggaagaa	caagaagagg	420
aggatgaggc	accattccag	gagaattccg	gcagcgatga	agatttccta	atggaagatg	480
atgacgatag	tgactatggc	agttcgaaaa	agaaaaacaa	aaagatgggt	aagaagtcca	540
aacctgaaaa	aaaagaaaaag	aaaatgcccc	aaccagact	aaaggctaca	gtgacgcca	600
gtccagtga	aggcaaaang	aaaattnggt	cgccccacag	cttcaaaggc	atcaaanggg	660
aaagaatccn	tctccaaaag	aagaaagatg	agggaaaccg	aaaaccccc	agaaaaggaa	720
aacatctana	agccccccaa	cccagaaatc	tggggataaa	ggggctgaaa	aataaacccc	780
cntttgggga	agnttttaaaa	ttatgaangg	ntgggggaaa	aaattttttt	aaaaaannnn	840
nnnnnnnnna	aaaaaanttt	cctgccccgg	ggggcgccnc	naaaggggga	anttcaanaa	900
aaangggggc	ggtttaaaaa	ggggtttcca	ccccn			935

<210> 28

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 28

cttggcnaccg	ccctcgatc	cctagtaacg	gccgccagtg	tgctggaatt	cgcccttcct	60
atctgtggac	acttaatgca	actgtttaaa	aatgataatc	acgagttatg	tagcaacgtg	120
gaaatataat	tacagaacat	taagtggaga	aagcaggaca	cgaaagtata	tttatactac	180
agttataact	caacagttca	tttatatgct	gttcatttaa	cagttcattt	aaacagttca	240
ttataactgt	ttaaaaatat	atatgcttat	agtcaaaagc	tggtgtggtg	ttgtgtgtgt	300
aggcttatag	ttgagcatta	ttttcttaaa	tttcttgaat	gttctttatg	gtagtgttac	360
taaaaaagttt	atgatcacat	tttcattgtg	aacataattt	gaactcatta	tcacacactt	420
ggaaaataca	gaaaagtggg	gaaaaaaaaa	tcatatcccc	accatccaaa	gacatatact	480
ctcctcttat	ctgttccatt	cttgnttctg	tcacacaggt	tatgattata	actgtgtcaa	540
aatgtatatt	caaaatagct	gttacattac	ctttgtggaa	ttatggttaa	atactttcac	600
tttaattttt	ataaatgttc	cctataataa	tgctctgata	acagtgtatt	atgtgtgtct	660
ccattgtgtg	gcataatata	taccagagg	aaaaattaga	aaataaagta	aattatttta	720
aaaaattacc	tataattccc	aacacctaac	aactactgnt	aacatcttga	nctgggtcct	780
ctatcttggt	tcaagtgcac	accgcttngn	aataacaagg	gttaaaaatg	ngngccataa	840
agttcntaaa	atggaaaagg	atgtgggaaa	aatnacctaa	aaataggggg	ggccattggg	900
gggnaatttg	ggttaaaaaa	tttgggctcn	aaaatncctt	aaaaaaaanc	ctttgggggt	960
tttgggaaaa	aaaaatttta	ggggagggaa	ttttccattt	ccaaatntta	ntcctacttc	1020
ntta						1024

<210> 29

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 29

taggatnct	gctcgagcgg	ccgncagtg	gatggatct	tgcnagaata	cgcccttcca	60
tcctaatac	actcactata	gggctcgagc	ggctgcccag	gcagggtgcta	acaaacccaa	120
aacctgtgca	cagaaacang	atgaagaaaa	tatatcaaga	tgtaaaancac	actctttggn	180
tggtgaaaac	atgggtgagt	ttctcttcta	cntttctgcn	antncanagn	ttctataatg	240
aacacatttc	atatgtaatg	ganntntntg	tagtgnaagg	tggactaccg	gaacactaga	300

atgatgacct	ttcaaggaaa	ccgaancaaaa	ntnacntan	tcccacaana	accacannac	360
tattncntgg	tnntnatggt	tcttcccatc	tttgacattg	atgcntactt	aggactancg	420
ccctaataat	cccagacttn	ggcacagatc	aaganggtaa	cnggtgattg	gaggtgggtn	480
gccggaantt	ggggtgantg	ttntttatgg	anttnccann	ttttggtang	ngattgnnna	540
aaattngaana	nggaaacnct	tacttnaant	tgnttaccnn	aacnccnagg	atnttttaag	600
gattnggggc	cnaaattttt	acccaaattc	cnncaangcc	ancnctgtnt	aagtcatttt	660
caaanTTTTT	tcncttaaag	accttaaggc	cccctaagggt	aacctgggaa	tanaaggggg	720
ggcacntggn	accaggntcc	nagggaaacng	nnccaagant	tttccccntt	ntttgtttgg	780
gggttgggaa	atnnnnngnaa	attttttaaa	ggtaatncac	ttaatttgcc	aaaggaattc	840
ccttnggggg	nggnnttatt	gcncacccat	gggagacccc	cnaagggccc	cnggaataag	900
ggcctttttt	tttngggacc	atttgggaaa	aatttaaang	ggaaggcnnt	ttgnaccctt	960
aatttcccca	aggnaaangg	aaccnccent	tttgganatt	gcattttngg	ccccgttttt	1020
aagg						1024

<210> 30
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 30						
gtgcgctcta	gatgcatgct	cgagcggccg	ccagtgatg	ggatatctgc	agaattcgcc	60
ctttcgagcg	gccgccggg	cagggtacttt	aattttgctt	gttcaaatga	tctacactta	120
cattttgcaa	atcttttttt	ttaaattttt	taaattttat	attttttttc	cagccaactc	180
aaggccaaaa	aaaatttctt	aatatagtta	ttatgcgagg	ggaggggaag	caaaggagca	240
caggtagtcc	acagaataag	acacaagaaa	cctcaagctg	tgaggtcaat	ttgtaattaa	300
aagaatacta	agattagatg	aacacaacac	tcagaaatac	tctaggagag	ctgaaaaaga	360
aggaacagat	gttaacaaaa	caaattaagg	ctgctgggga	acctgagtcc	atgttaagct	420
tgggttgact	gtaaaagaatt	tttttttttt	taatgcaagt	tagacatgga	gttagagggt	480
cagataaata	acgaagagaa	ttaagtttagc	gatagaaaga	tctaaggata	ctagctcctg	540
ggcacctagg	gtgcaaacctg	acttgtggca	gcataagctg	atgctgcaca	ggggacccaa	600
gccatgttgc	tacttgtcac	ttaaggcang	aagcgcacaa	aggaagtgat	gaaagggtat	660
tagccttgact	cattattttac	agcatganag	cctctcctac	gggtcccaac	cttcattagg	720
cactactggt	gattcaagtg	aatgggttgt	aacccantcc	ttaaaaggca	aaggatgtta	780
ggantttaca	gggaaaaaag	cttcgggggt	tttancaatt	caccaatcan	caaaccacat	840
attgaagttt	gggttaaaaa	aaaaanannn	anaaaaaagt	ncctcggcc	gngaacanc	900
cctaaggggg	naaattccag	canactgggn	gggcgntta	caaaggggtt	cgaaccncgg	960
taccaaacct	tgggggttaa	ncaaggggca	aaancgggtt	ncccgngggg	aaaattgttt	1020
nccg						1024

<210> 31
 <211> 1019
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1019)
 <223> n = A,T,C or G

<400> 31						
gtgngatgca	tgctcgagcg	gccgccagtg	tgatggatat	ctgcagaatt	cgcccttttcg	60
agcgcccgcc	cgggcaggta	ccatgctgac	ttcttggtat	cttttaaggc	ctaatttttcc	120
cttccttgag	attactgtag	tgtgttccag	ctaattttcta	tttggaaacg	agttggaaca	180
gctgaaaact	aggtattatt	gaaggcaaa	cagcctcacg	tcagtttttt	atcagctcat	240
ttgggaagtt	tttttttttt	ttttttttta	attaattaga	aagtaggctg	ggcacgggtg	300
ctcatgccta	taatcccagc	acttggggag	gccgaggatc	tcctctctgg	tggatcactt	360
gagggcgagg	gttaagagac	catcctggcc	aacatgatga	aaccctgtct	ctactaaaaa	420


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tacaaaaagt agctgggctg ggtggcatac tcttacaatc ccagctactt gggaggctga 480
ggcaggagaa tcacttgaac ctaggaagca gaggttgacg tgggccaaaga tcacaccact 540
atactctagc ctgggcgaca gaggtgggga aaaaagtagg acccctgtcc tatattcagg 600
tttttctcac atatatgaac ccatctaaat tctacgttgt taaaggtaac ttaggttaat 660
taagtccata cttatttaag accaatatgg ggtgaaatgg gatttttttt taaaaatcct 720
acagntnagg ctttccnact ttcctttnaa atgaggaaaa aaagggtgaca aaaattcaag 780
tgtcaatgtc ccctcctggg gaaanagggt tanaaaaaca acaggctcaa ccttctgaac 840
tnctaacaan ttcccttnga aanttaacga anccattaaa atcnngattt taaaagagga 900
aaanaaaaaa gttcctcggn cggnnacaan cctaagggng aaattccaca aaaanngggg 960
ggcctttana aagnggttcc nacccggtac aaaaccttgg gnttaaccan gggccaant 1019

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<210> 32

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 32

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accgccctcg natccctagt aacggccgcc agtgtgctgg aattcgccct tgtgtgtggg 60
tgttgggaat atgtgtgaat tttctttact gaatttccaa agttttgtat gagtatgtat 120
tatatttgta atggaataata catacataaa atttattacc aaaacaccaa agattattta 180
aggaatttga gacaaaatat ttaaccaaat tcccacaatg acaacactat tttagttatt 240
ttccacatct tttcatitaa gactttatgc acacatattt aacactgtta tcacaagcgt 300
gtgcactgaa acaagataga ggaaacagat caagatgtta gcagtagttg ttaggtgttg 360
ggaatatagg taatttttta aaataattta ctttattttc taatttttcc tctgggtatg 420
tattatgcac accaatggag acacacataa tacactgtta tcaggacatt attataggga 480
acatttgaaa aaattaaagt gaaagtattt aaccataatt ccacaaaggt aatgtaacag 540
ctattttgaa tatacatttt gacacagtta taatcataaa cctgtgcaca gaaacaagaa 600
tgaacaagat aagaggagag tatatgtctt tggatgggtg ggatagattt ttttttctc 660
cactttttcg nattttccaa gtgtgtgata atgagttcaa attatgttca caatgaaaat 720
gtgatcatta aacttttttag taacactacc aataaaggaa ccatttcaag aaaatttaag 780
gaaaaataat gctcaactat taagcctacc acaaccaaca cccacaacag cttttggact 840
attaagcnta tatattttta acnggtatta atggaactgg ttaaatgaac tggtaaaagg 900
aaccgcatnt taaatggact ggtgnggtta taaccggtgg tataaaaaana cctttggggc 960
ctgggttttc ccttaanggt ctgnaaanat attttcncgt ngtcacanacc ncgggatatc 1020
aatt 1024

```

<210> 33

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 33

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gcctcncaga cncatgctcg agcggncgnc agngtgatgg atatnnngca gaggncgccc 60
ttccancena atacgacnca ctataggcgn nncnnntng gcnnctttgn tgccctccn 120
ctcgnataat anctatatta acgaaattgt nctggccttg agttggctgg agagaaatat 180
tnngagnnnn accngtnnnn ntngnnnatc ngtaaatgt aanagtagnt catttgaaca 240
agcaatnatt naantaccca ctggnggaaa ngngnctgaa tcttactctt ntggatctgc 300
aggantaggg cttgttagta tgtcaaanat gcnnncagtg tcaangtta ngccnattgt 360
aganctngta gcaggaaanc acnntgagg ancnncagaa nggagncctn anacatnncc 420
agatntacga ggngagagga gacanacnga gaaagacacc ntaggncga nctgnagaag 480
gncaggattc tgagaatgaa ntgcncggnn agtcnganc agattgaaa aggagnttct 540
ganggnatgg tgcacnngag ggctgacngg tangagnnac tgntgttga acgnacatag 600

```

```

cgaaagntgn tngncagtga ggattactac atgnngaaag gactcttgaa acgaggaact    660
aactgtgatg ncanggctga agtttgggcn nccatacttt gnaggttaca attnttngca    720
gtggncgcncc cgtttaaana gccnttttga tggaaantca agggtggnncg gtacnacctt    780
ccnttttaggg nacaaggcnt tnccgantgg gtngccagga agaanganng ccnnanccct    840
annnggngggg ccccttaatn gcacnggggtg aacaatgcna accctcgggt tattggaacn    900
accngggana anatggttac cgaaccatta ngtgggggna aaccgggacc ccggaaggct    960
tttttinnct cngggtaaaa acttaacaga ccnatttttt gcccgccttt taacangtct   1020
tttt                                     1024

```

<210> 34

<211> 982

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(982)

<223> n = A,T,C or G

<400> 34

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acaacaatct aagcaaactct caaatacaac atacttgtaa ttagaacaca atgcaatgac    60
ttgatttttag caagaactag acacttaatt tggtaaaaga aaccaaacia tgcattatat    120
tgaataactaa gcttaagttac cataattagt cttacaaatt ctcaaatttc acaactactt    180
ttgaacatct aaatttaaac cttaaatttt taattaaatg cctgttcaac aaagctaatt    240
ggaacaaaaca catttatgta aatttacatt ctagaatacc agggtaaaaca aggagacgtt    300
attcaaagat gaatgagaaa gttctattct ttttcatcat ttgtgtgatc aggttgcaaa    360
ggacatgctc tttcctcgat gaaactgatg tcgaattagt ggcagagggtg gaagaaccaa    420
gcacctttct gggggctcga gcagccacca cttttctgta agtgccctggg aacactgtct    480
gcttttagtcc gcaccatgtt caaacaagaa gagaggagag gagagaacga actgacttcc    540
cagccgaagg tgtttcactg ggacaaggcc ccgcgttacc tgcccggggc gggccgctcg    600
aaanggcgaa tttccaagcaa cactgggcgg gccgtttacn nagtgggatt cggngctcgg    660
gtancaaggc ttgggggtaa tcaaggggca atagccggtt ttcccnnggg tgaaaaatgg    720
tnttccngnc acaantccca nacaancatt ccgaagccgg gaancntnaa agtgttaaaa    780
ncttgggggt ngcccaaatg angtgngct naactcccat ttaaattngc gnttgcgccc    840
nannggccng ctttccaat tncggggaaa cctgttncgt gccaaagtcg cantaaagaa    900
atcncggcna antccccggg gnaaaggcg ggnntgccgt nttggggggc gnttccgggn    960
tttccccggc caaagggnng ng                                     982

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<210> 35

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 35

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cttggcccg cctcggatcc ctagtaacgg ccgccagtgt gctggaattc gcccttccat    60
cctaatacga ctactatag ggctcgagcg gccgccggg cagggtataaa atttaaaaaa    120
tttaaaaaaa aagatttgca aaatgtaagt gtagatcatt tgaacaagca aaattaaagt    180
accactggg ggaaatgtgt ctgaatctta ctcttctgga tctgcaggat tagggcttgg    240
aagtatgtca aagatgcagg gagtgtcaaa gtttaggaag attgtagagc tgagagcaag    300
aagcagaaat gagtgtgtag aagaaggagg tcctaataca tcaccagatc taggagggga    360
gaggagacag acagaagaaa acaccagagg caagaactgt agaaggccag gtttctgaga    420
atgaattgag cgggggtgtcc tgagcagttt ggaaaaggag tttttgatgg tatggtgtag    480
gtgaggggctg gctgcatagg aaggactgag gttggagcgg acatcgggaa agctgagggg    540
cagttagggtt tactacatgg gaaaaggact cttgaaacga gaatcagtgat tatgttcagg    600
gtgaactttg tgggtacatt acttgggtgt aacattgggt gcagtggtaa gcccttttcc    660
agaaagcaac ttgcttgtaa gtcanggtgt ccggtccaac ctttaactag tgaaaaggta    720
gtaaccaatg gtaaacagg agaatgatt gttnaaccct atctgnggac acttaaatgc    780

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cactgggtta	aaaatggnaa	tcacgagttt	tgtancaacc	ggggnaatat	atttaccgga	840
acctttantg	ggnaaaagcc	ggncnccnaa	ggntttttat	tncttcnggt	tttaacctta	900
acaggtncaa	tttataatgc	cgggccattt	aacaggtcat	ttttaaccgg	gtcnnttttt	960
accnnggtta	aaaaanntnt	atgcctttag	gncaaaaanct	ttttnnnggg	gnttnttggt	1020
nang						1024

<210> 36
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 36						
taccgcctcg	natccctagt	aacggccgcc	agtgtgctgg	aattcgccct	tccatcctaa	60
tacgactcac	tatagggttc	gagcggccgc	ccggggcagg	tagcaaatgt	tgtggcattc	120
ctcctcctcc	tcaagtcttt	acccgaaact	acttcccaag	agaggttgct	cttcccaaag	180
aatcacctgc	cttgggacca	tatggggcta	ggctgagggt	caggagccaa	gagcctgggt	240
ccaactctgt	ctgtggctta	ctgtgagacc	ctaggcaagt	tgcttaccct	ctctggggct	300
caaattcttc	ctctttgaaa	taggaataat	aacttcatca	ctagaattct	tcacctgggt	360
gttgtgaagt	taatcagaat	aaatgtggag	ataatacatg	aatgagcgta	cagaatatta	420
tttggctggt	ctgtggcatc	gatataagtc	atgatatgta	caatagtgtc	tgtcattgta	480
ttccacacca	cttcttccct	cagctaaagc	aggaaaagaa	aggaggttaag	tctctctgtg	540
ttttttcttc	ctttccccaa	gcccactttg	ttaccttcct	tggttgctgg	atgagaaatt	600
agtcagaggg	tcagagagga	cctcaacttc	atatgcttta	aatagagcat	atgcaatttt	660
aaaccatcct	cttaaccaat	ttttcttttc	ttttcagttt	ttccccagtt	atacttccac	720
atgatacacc	agagaaggaa	gatacctttc	catactgaag	aacacaagaa	atttgaatag	780
ttcctgcttt	ctgnaccttc	cacccaaaaca	aacttttcaa	tgatccaaaa	aactggcttt	840
gnactgggga	gtcacggaat	gggccggctt	ccangganca	tgccggnnng	gcctttgcgg	900
ngtgcggcct	gtggtggcgg	cggaaaggna	accgggggca	tggnntnccg	agcctggctc	960
tgccccccng	ggncatggtg	tggaggcaaa	gaancctgaa	gtccccacng	gccccgggga	1020
agna						1024

<210> 37
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 37						
cttggcaccg	cnctcggatc	cctagtaacg	gccgccagtg	tgttggaatt	cgcccttcca	60
tcctaatacg	actcactata	gggctcgagc	ggccgcccgg	gcaggtgaat	tcagcggccg	120
cttttttttt	tttttttttt	tttttttttt	acaggggcgg	tttttgtttt	atttctgctt	180
ttttcccttt	ttcttaaaaa	aattaaataa	agttctcatt	atttcccaaa	tatacatcaa	240
atgagttttc	atgcaaagca	gcagtcacag	aggcagaact	gtccccagct	cgtgcctntc	300
ggcttgaaga	accaccttnt	cccggccccg	ggttctctgg	ngttctcact	gaggatggac	360
gacgcccact	gtctntccca	gctggaactg	gctatgacga	aacttggtcg	gcgtagggag	420
aggagtcttc	ccctntcccc	aggatggggg	ctcaggggac	agcaagctct	ggggcctgat	480
ccccatcact	tgnccttcca	tctgagactc	ccagtgtgac	agcttggaac	ggtccctctt	540
cccaggaatg	cagaggctcct	cctctcagct	ctcaatggac	atggcattaa	tgagctgctc	600
caccttataa	gccagccgnt	gccgccgtgc	ctgctcatcc	tgctctaggg	ccccgatgag	660
ctcctcacta	tacttgctga	cataggagta	gatctcattg	ggggcactca	acatgttgaa	720
actccacggn	gtgcaggcgg	gactgctcgg	cgagggttagg	cattcatggc	ctggtcactg	780
gatggctggg	aaccttggcc	aaggctgcgg	nagnatcttt	ttccccagc	tnntggnaac	840
ttgggggaagg	cccttgggca	taaaaagcaa	cttggttgga	anggggaggn	ctttgcccaa	900

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ccccgggggct ttggacgttg gaacaagagt nccttgaagg gtttgggncc ccncaaaaa 960
ngcangcntc cgggaaagcc gcccttgggg gtgncaaaac ccnaactgg ggggtntntn 1020
aanc 1024
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```
<210> 38
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G
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<400> 38
taccgcccgc gcatccctag taacggccgc cagtgtgctg gaattcgccc ttccatccta 60
atacgactca ctataggcct cggcggccgc ccgggcagggt gccgcttttt tttttttttt 120
tttttttttt tttttgcttc acaactgttt attttaagct gaaacttcaa tattcattga 180
ttacctataa taatagttag tcataaatgt agttaataat taaatataaa aattattatt 240
tttacattta tataaatctc tgaaaaatac caagttttga gagatagagc aagaaattgc 300
ttanaaaatt gcaggaagcc tgaanaatct cagcatcagt caaagcagggt ncaacaaaaa 360
acaatttttag acattcattt ttgcttttaa gaggctttaa aataaatgat cacagaatga 420
ataactgatg tatggcaaaa atgagtttaa aactatgtaa gctccaaggc cccaatgtgt 480
ataagaattc tttggaagga ttttgaagga ctgtaaatgt tgcaaatata agtaaaaact 540
agtagttagg caatgngttt taaactatag ngtcacctac tgntcttctg gtgcctaact 600
gnattcttca acatcttctt ttcccttttg attagaaatc ctgggtctacc tcaaagggtt 660
tgcaattgnt tctagggaca tcagcaaaact ggtagaccat atgagaaaca gaaataaaca 720
gtaatattat ctttagaaat taagcattat gtacncagtg agaaatggat tgacttgata 780
gaccttaaac ccccttcttc ctttcacacc ctttntagna ccacctaanng gtatccggat 840
tggggatggg gcccnctnt ggtaatcccc cttnnagtcag gacaggggcc cctaagggcc 900
caattttntt tcgaattaga gaaatncccc attttttggg ggggtggcaa gtnttanccc 960
anggcttgca aaggcttntt tttgaagana cncccaaacc cggggncctn tttttcngga 1020
atca 1024
```

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<210> 39
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G
```

```
<400> 39
tcgcccagagc agnangcn cn agcggncnnc agtgtgatgg ttatngtggn gnnttcgcnc 60
tnccatncta atnctactca ctatagggnn cntgngncnc nnggcnagtn ntnacnnntn 120
annngtgtaa ctgatatcat ntcnncnana ccatgggttac atnnanntag gtctcnnang 180
nataccangc tntgagagnt ngaccnggaa ntcgnttnga aannttgngc gangccngat 240
caatatccnc atcngncaca gcgntccgc aagctgacaa tnctgnanat tnattnttgg 300
tttannganc nnttacangn atggnncccn gagatgcatg nnggagtatg gcaaagatgn 360
ntgtaaaact atgtaagctc naaggcccca atgtgnataa cagttcntgg nanggantnt 420
ganggantgt aagngntnaa nntnaangnn anannnaaga ggtangncat gagcccnaaa 480
ctgtagnnnt anctacagng cttanggcgc ctacctggga caggcnacgn cttcattaac 540
cttttgatta gaannacggg ggtaacncac nggttnngca tgggccagta ggngcattgn 600
ccngcngggc aaccatatgc tngncncaaa taaacgggtc ttttanctca nnagattaaa 660
gctttttggc cacaggggna aaagnatggc ttganaggcc ttaaaccccc gtactcngtn 720
cacccttttn gagaaccncc taacgggatc tggaaatgng atggcccccct nttgggaaac 780
nccctanaag anacctcngg ngaccccttg nggcccattt tgangtttag nacngcaatt 840
tncccathtt tgnggttttt gccaaccccta agncatnngc tggcaatgga ntgnnttttc 900
caatagaanc aaaccccggn tnttttttgg ggggnatcag gggttaagggn nttggcaaaa 960
nnaaannggc ncnnggnaaa aatttttccc nggtntatcn aaanncccca aagcttttng 1020
```

caan

1024

<210> 40
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 40
nggacgcgatg ctgcagcggc cgccagnng atggatntng tgcagaantc gccctttcat 60
gcctatgata ccngcacttg gngaggccga ggatctcctc tctgggggat cacttgaggg 120
caggagttaa gagaccatcc tggccaccat gatgaaaccc tgcncctact nnacatacag 180
gaagnagctg gncgngntgg cataactctta caatcccagc tacttggnag gntgangcag 240
ganaatcact ngnacctang aagcagaggn tgcantggnn ccaanancac accactatac 300
tntagcctgn acgacagagg tgntgataa agcngggacc ctgactatat ncaggntttt 360
ctgaentnna nnancncatc taaatnctac gccgntgag gtcgcntagg ttangtagnn 420
natnctnatt tatgaccaat atgntgtnan acggcntnnt gntnaaaant tntacagnan 480
ggcngnctac nttntctata atgnggaaaa cggtgntgta natncangtg nnnnngtccn 540
ntntntgna agaggnttng aaanncanca gtgcaccttn tgaactctac nagnagcttn 600
tgaagctaac naagcnttaa natnagatgg cntgntagga ctgtacnngc anggaaagat 660
tcacaaaaat ggacattctt naccgagata ngntcttgct ttaccgggga ggacnnntcc 720
aaggntgtnt naagagggac agtcagctta gtnntgctng ggtagagaaa accangactt 780
natntgtgag cttgatnggc agaacctggg nanccttgga agagcntnga ttgncngat 840
ccctgaaagg gcnntcttna ccctatcggg gaccttnnna acctcttang tggcacgcaa 900
ggcaacnaacc nggcncttt caagaatcnc nggaatcnag gccctttct tgggntnanc 960
cngnnnnncc cgttnagncc cncgggnaaa anntcttggg nntttccaat cccngngggn 1020
nttt 1024

<210> 41
<211> 1004
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1004)
<223> n = A,T,C or G

<400> 41
ggtnnnnntta atcatcgccn gcttggtacc gagctcggat ccctagtaac ggccgccaagt 60
gtgctggaat tcgccccttag cggccgcccc ggcaggtaact tcccaccact ggaaatgtta 120
gcataaaaaga acctggagag gaaaaaagta ttaacaaaac tgcagtctgc actctttaa 180
cctgttttaag gctcttcatc ctgggttagca aaagggtgta atgtaatgtg atggaattta 240
aaagttttat gagaccagge acagtggctc acgactgtaa ttccagcagt ttaggaagcc 300
gaagtgtgca gatcacctga ggtccggaga ccagcctggc caacatgggt aaacctgtc 360
tctactagaa atacaaaaat tagccagggt tgggtggcggg cgcctgtaat cccaactact 420
caggaggctg aggctagaga atcacttgaa ccagcagggc ggagggttgcg gtgagtcgag 480
atcacgccat tgcactccag cctgtgcgac aagagcgaaa ctctgtctca aaaagatttt 540
ataagaaagc agagcttttc cttgaagctc ttttgaagtg gtagcttaat tagtattttg 600
ntgaaaatac tttaaagatg cctagtgaag agcctactaa agtgcgtgta aaaatggggt 660
ttanaacatt ttattttcan gctttatggc ctattttcca ttgnggcaag tgcaaaaacta 720
ccctggccca aangaagggc agagaacata attacctctt anggcacatt tcattctttg 780
cagctttgtc taatccagtn gctaagttct ttacctnaac cctgnaggna ttgaacntta 840
ttncatttn ngnaaaaggg tcacctntt nnnacaatnt tncannanct ttttnggaag 900
ttanccnttg gccttaaaan ttnaaaantc cntntggnt tccctttatn ccccnangg 960
gnnnantang gnttggtatt ttaanggncc ttggccngaa cccc 1004

<210> 42

<211> 1020
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1020)
<223> n = A,T,C or G

<400> 42

nnnnnnnnnn	nnnnngattg	ggccctctag	atgcatgctc	gagcggccgc	cagtgtgatg	60
gatatctgca	gaattcgccc	ttagcgtggg	cgcgcccgag	gtacctttga	taattcctag	120
acctctat	tcattctgtg	tattaatgtg	aataacagat	ggatatttta	atatttaagg	180
cagatggtaa	actttcctat	aggtcttg	agacttcg	ttataggctg	aacaccattc	240
acaaaatgta	ataatgcttc	attccttcag	gttgaggtaa	agaacttgag	caactggatt	300
agcaaaagctg	caaagaatga	aatgtggcct	aagatgtaat	tatgttctct	gcccttcctt	360
tggggccagg	tagttttgca	cttgacacaa	tggaaaatag	gccataaagc	ctgaaaataa	420
aatgttctaa	accccaatct	cacagcactt	tagtaggctt	ttcactaggc	atctttaaag	480
tattttcaac	aaaatactaa	ttaagctacc	acttcaaaag	agcttcaagg	aaaagctctg	540
ctttcttata	aaatcttttt	gagacagagt	ttcgctcttg	tcgcacaggc	tggagtgcaa	600
tggcgtgatc	tcgactcacc	gcaacctccg	cctgctgggt	tcaagtgatt	ctctagcctc	660
agccttctgg	agtaagttng	gaatacaggc	gccccgncaa	cacacctggc	taaattttgn	720
atttctagta	naanaccagg	ttttnancat	gttggncagg	gctgggtctc	cggaaacctn	780
angtgatctg	gacacctttg	gntttcctaa	actgggtgga	aattancagc	gggaaccnct	840
ggggcctggc	tcattaaacc	tttaaaatnc	cttnccattc	anttcnacc	ttttggtaac	900
cccgatgaa	aaccttnaa	ccgggtttta	agnangcnna	nnnggggnat	ttgtaaaact	960
ttttcccnt	tccaagtct	ttaagccaan	nntttncng	gnnnnggan	ccctnccggc	1020

<210> 43
<211> 1020
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1020)
<223> n = A,T,C or G

<400> 43

ggagnnnnnt	aaacgccagc	ttggtagcga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaaattc	gccttagcg	tggtcgcggc	cgaggtactt	tttactgctt	tgtcttcaag	120
gcctagtgtga	ataattaaca	tctagtatgt	gtttgatgga	tagccaattt	ttgcttcatt	180
ggtatgtgtg	taccacagtc	attggtagag	tcaatatatg	aatgaagaaa	gtataacaaa	240
tttgccctct	agtagagtac	tttttttttt	tttttttttt	ttttgttttt	tttttttttt	300
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	360
tttttttttt	ngnnnttttn	ncnttttttn	aannaaaaan	cggcccnann	accnnccnnc	420
nnnttttttt	nnccnggccnn	ccnggnttng	gggnnggggn	cnttnggggc	cnnnnnggncn	480
cttttttccn	naagggtttt	ggggttttng	gggnaaantt	tnggnncnan	nnnggcccnna	540
aaaaanttnn	gnccnanaaa	cgcnntttcc	nannnnnttn	cnttggggcc	caaaaanttn	600
cgnaaccccn	tgggcnnaaa	gggcnttgnt	ttttttgggg	nncccnnaaac	canggggggg	660
cnnaaaaaat	gncccttgaa	ntttttaaaa	aacctntgg	naaaancccc	nnngggtccc	720
ccnnnnnccc	ttantttttn	acanaanggn	nnaaangggg	ncccnnaaaa	nacnttngg	780
ggcctttttt	tnacaaat	gggnttttn	aaagggtttt	tngggggggc	cctntatncc	840
ccnaaaaang	aaagggnnnc	ccccccnnn	nnnnnnnncc	chaancccc	ggnnttttn	900
ccnggggggg	cccnnaaaaa	gggggnaant	ttnggnaaan	nccnnnnncc	gggggggnccn	960
ttnaaanntc	nnttttnang	gggccnnnn	nncccnnnn	annggggggn	nnaaaaaccn	1020

<210> 44
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 44
nnngnnnnnn nngattgggc cctctagatg catgctcgag cggcccgccag tgtgatggat 60
atctgcagaa ttcgcccttt cgagcgcccg cccgggcagg tacgcggggc tcggcgctgc 120
ctacggaggt ggcagccatc tccttctcgg catcatggcc gccctcagac cccttgatga 180
gccaagatc gtcaaaaaga gaaccaagaa gttcatccgg caccagtcag accgatatgt 240
caaaattaag cgtaactggc ggaaaccag aggcattgac aacagggttc gtagaagatt 300
caagggccag atcttgatgc ccaacattgg ttatggaagc aacaaaaaa acaaagcaca 360
tgctgccag tggcttcgg aagttcctgg tcacaaacgt caaggagctg gaagtgtctg 420
tgatgtgcaa caaatcttac tgtgccgaga tcgctcaca tggttcctcc aagaaccgca 480
aagccatcgt ggaaagagct gcccaactgg ccatacagat caccaacccc aatgccaggc 540
tgcgcatgta agaaaatgag taggcagctc atgtgcacgt tttctgttta aataaatgta 600
aaaactgcaa aaaaaaann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn aannccnnnn aaanannnn nnnnaaaaag 720
gcttntttta angggcaaat tgggaaacct ttttnattca aaaatggctt ttnccangga 780
ctggggacca nnttnccng gggnccaaaa ttgggntttc ctttaanccc nttncnnaan 840
gggaattttt ncccttgggc cttgaaaaac naagcnnnna aaaagncctt tgggnnggaa 900
acccctttng ggggaatttc cncncnttg gggggcnnnt nttnnnnggg acccnanttg 960
gncccaantt ttggggaaaa nnngggnaa aaagggnnnc cctgggggaa aatgttnccc 1020
ccca 1024

<210> 45
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 45
ggagnnnnn aatcatacgc cagcttggtta ccgagctcgg atccctagta acggccgcca 60
gtgtgctgga attcgccctt tcgagcgccg gcccgggcag gtacggcgca ttttgtgcac 120
acaaaatgtg cgcacacaca cacacacaca cacacagaca ctccctgcaca tggcctgtta 180
aagaactaca agggaggtgg gacgcgggaa agtgatggt gtggggttgc atcgtctcat 240
cattgattct tctcatattt ttctctgatt agagaaacta aagagaattt tgtgagaaag 300
gcttgaaagt taatgagtta ttctaccaa agtgattaca agcagaaatc ctcatagct 360
gtagagatgc tgacccacac atccttagct caaggagcc cctcgatta gtcaccttca 420
gccatcagca gcctccacca ttaaccccag tgtgctgtat aaaaaatact ttctacatgt 480
gcccaattt gaaaagttag gaagcactga tttcaaagca aatcattcac atttgaactg 540
tcttcagtgt acctcgccg cgaccacgct aaggcggaat tctgcagata tccatcacac 600
tgccggccgc tcgagcatgc atctagagg cccaattcgc cctatagtga gtcgtattac 660
aattcacttg ccgtcgggtt tacaacgtcg tgactgggaa aacctctgcg ttacccaact 720
taatcgnct ggagcacatt cccnttttg ccnactggcg taattaacca aaaaggnccg 780
gaccgaatcg gccntttcca acaagttggg ccaactgaa tnggcnaaan ggcccccccc 840
tgtaaccggn gccattaaac ccccgncggg nnnntngggg taccaccaac ggggaccggg 900
taacttgcc anggcctaa ggccgggtcc ttttggttn ttnccttten ttttngccc 960
ntttnccng nttttcccg aaagntntaa aaaggggggg tccccntta ggggtcccaa 1020
taaa 1024

<210> 46
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 46

nnngnnnnnn	nnnnnnngaa	ttgggccctc	tagatgcatg	ctcgagcggc	cgccagtgtg	60
atggatatct	gcagaattcg	cccttagcgt	ggtcgcggcc	gaggtacact	gaagacagtt	120
caaattgtgaa	tgatttgctt	tgaaatcagt	gcttcctaac	ttttcaaatt	tgggcacatg	180
tagaaaagtat	tttttataca	gcacactggg	gttaatgggt	gaggctgctg	atggctgaag	240
gtgactaatg	cgaggggctt	ccttgagcta	aggatgtgtg	ggtcagcatc	tctacagcat	300
ctgaggattt	ctgcttgtaa	tcactttggt	agaagtaact	cattaacttt	caagcctttc	360
tcacaaaatt	ctcttttagt	tctctaata	gagaaaaata	tgagaagaat	caatgatgag	420
acgatgcaaa	cccacacat	acactttccc	gcgtcccacc	tcccttgtag	ttctttaaca	480
ggccatgtgc	aggagtgtct	gtgtgtgtgt	gtgtgtgtgt	gtgcgcacat	tttgtgtgca	540
caaaatgctg	cgtacctgcc	cgggcggcgg	ctcgaaaggg	cgaattccag	cacactggcg	600
gncgttacta	agtggatccc	gagctcggt	ccaagcttgg	cgtaatcatg	gncatagctg	660
nttcctgtgt	gaaattggta	tccgctcaca	attccacaca	acatacgagc	ccggaagccn	720
taagtgtaaa	agccctgggg	tgccctnatg	gtgagctaac	tccattaaat	tgcggtgccc	780
ctcaactggc	ggtttcagtc	cggnaaanct	gcggncnact	gcantaatga	atcggncaac	840
gcccccgga	aaaaagcgt	tgcaattgg	gccctntttc	cctttcttgg	ttaatggact	900
ccntnngnct	tnggccnttc	ggnttnggnn	naacgggatt	aanttnnnnt	naaagggggg	960
naanacgggt	ttncnana	aatcnggggn	aaacccccng	gaaanaaaen	ttggncccaa	1020
nggc						1024

<210> 47

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 47

ggngnnnnnn	aaacgccagc	ttggtaccga	gctcggtacc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggtcgcgcc	cgagggtgcat	ctgaacattg	ccaagcccta	120
ggacattccg	tagagcttgg	ggattctgga	ccaattgggt	cagacaggac	acgaaatgcc	180
tgtttgatgg	gttctgcaat	taaaacacca	actactctct	tttcatcaga	tataaaaaga	240
aaagttttta	ttttgtttgg	acatttagga	acaacttgct	ggaagcccaa	ttcattatca	300
acaagtctct	ggacatcttc	tacctttttg	atagcaaagc	ttggatcatg	tggcagaacc	360
aacacgattt	tcccatccca	aaactctgct	actacacgtt	ctttcttcca	accacatat	420
ttgattcctt	ccagaaacct	gtggtgatgc	tgtacctgcc	cgggcggcaa	gggcgaattc	480
tgcagatata	catcacactg	gcggccgctc	gagcatgcat	ctagagggcc	caattcgccc	540
tatagttagt	cgtattacaa	ttcactggcc	gtcgttttac	aacgtcgtga	ctgggaaaac	600
cctggccgtt	acccaactta	atcgcttgc	agcacatccc	cctttcgcca	gctggcgtaa	660
taagcgaaga	ggcccgnacc	gatcgccctt	tccaacagtt	gccgcagcct	gaatggcgaa	720
tggacgcccc	ctgtanccgg	cgcattaaac	cgccggcggg	tnnttggggg	accccnacag	780
gggaccggta	cactttgnca	agggccctaa	cggcccggtc	cntttcgctt	tcttnccttt	840
cntttnttgg	ccacgttngn	ccgggttttc	ccgtnaagc	ttttaaaatn	gggggcttcc	900
cnttttaggg	gttcnaatt	aanggtttta	cgggaccctt	gaccccnaaa	aaactttnnn	960
tttnnggggg	gngggntnc	ccntaggggg	ccattgnccc	ttgnnaaaaa	anggtttttn	1020
nncc						1024

<210> 48

<211> 1017

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1017)

<223> n = A,T,C or G

<400> 48
gnnnnnnnga ntgggcccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60
gcagaattcg cccttgccgc cggggcaggt acagcatcac cacaggtttc tggaagggaat 120
caaatatgtg ggttggaaga aagaacgtgt agtagcagag ttttgggatg ggaaaatcgt 180
gttggttctg ccacatgac caagctttgc tatcaaaaag gtagaagatg tccaagaact 240
tggtgataat gaattgggct tccagcaagt tgttcctaaa tgtccaaaca aaataaaaac 300
ttttcttttt atatctgatg aaaagagagt agttgggtgt ttaattgcag aaccatcaa 360
acaggcattt cgtgtcctgt ctgaaccaat tggccagaa tccccagct ctacggaatg 420
tcctagggct tggcaatgtt cagatgcacc tcggccgcga ccacgctaag ggcgaattcc 480
agcacactgg cggccggttac tagtggatcc gagtcggta ccaagcttgg cgtaatcatg 540
gtcatagctg tttcctgtgt gaaattgtta tccgctcaca attccacaca acatacgagc 600
ccggaagcat aaagtgtaaa gccctggggt gcctaattgag tgagctaact cacattaant 660
gcgttgcgct cactggccgc tttccagtcn ggaaacctgt cgtgccagct gcattaatga 720
atcggnaaac gcgcggggga aaaagcgggt gcgtaattgg gcgctcttcc cgctttcttg 780
nttacttgac tccttgggct tcggccgttc ggntgcggnn aacggnatcc aacttactca 840
aaaggcggna atacggtatt ccngnaatc nggggataac ccccggaan aactttgacc 900
naaaggcccc caaaaggccc ngaacccgna aaaaagggcn cgnnnnnnnn gggtttcct 960
aaggttcccg cccctggnn aggtttccca aaatngnnn cctttnnnn nnnnnngg 1017

<210> 49
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 49
ggngnnnnnn anathaaacg ccagcttggt accgagctcg gatccctagt aacggccgcc 60
agtgtgctgg aattcgccct tgagctggcc gccggggcag gtactgaaat tactctgaat 120
tcagaaatgt aagtatatgc agctaggtca taaagacact gcttttagaga agacatgtat 180
tagtggaatg gaacaggtaa catctttgag aagtcaatga gttctgcatg cagggtattc 240
accatcgga tgatggcaag aatgatgcct gctgtgtgc ttctcagagg acgtataaag 300
ccactgagga tgagtgtac agtgcttggt aattgtggg ccacagacat ttaagttggc 360
attgcttttt tcctcctctg cttaatccac ctttataaat atggcagatg gcttaagaca 420
ggcatcatca gcatctctgg agatgtggc tcagagggca agtgggggcc gtgggggttt 480
ccactagagg gaggaagtt tctgtttccc atgtgttagt tgtagttgtc tttgtgcttc 540
accagaaaag aggtagagt cgcacctca cactaagagc ccgaaattgt gggtcagtag 600
tttttttttt tnnntttttt tggtnntttt tnnnnnnnnn nnnntnnnn ngnnnnnnnt 660
tnntttnnnn ngnnnnnnnn nnnnnnnnnn ttnntnnng nnnncnctn nnnnnnaann 720
nnngnnnnnn ncnnnnnnnn tngnnnnnnn nnnnncttn ngggnnnnang nccnnnnnn 780
nccnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnn nnnccnannn nnnnnnnntn 840
nnnaanncn tnnnnnnnnn nngggnnnnn nnnntnnan nnnnnnnnnn nngnnnaann 900
nnnnnnnnnn nnnnnnnna annnnnnnnn nnnnnnnnn nnnnnnnnnn nnnnnnnnn 960
nnnnnnnnnn nnnnnnggn nnnnccnnn nnnnnnnnn nnnnnnnnn nnnnnnnntt 1020
nngg 1024

<210> 50
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 50
ggagnnnnnn nntncngant gggccctcta gatgcatgct cgagcggccg ccagtgtgat 60

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ggatatctgc agaattcgcc cttagcgtgg tcgcggccga ggtacactga cttgagacca 120
gttgaataaaa agtgacaccc ttataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaanaana ntataaaaaa tttnaaggta aagntnncnn ntnaaaatct ttttagggna 300
tccttatann nnttttcggn tntttnnngg ntngncctct nntnccnntt tttttnggna 360
ancccaann cccngnctta ccnnatgngn cananttaaa anggtncntt nttnnnggga 420
nctcannncc cccgccnttt tnttnngggg ggnttnncca nngngnggna aatgcncngc 480
tnatnaanan gggnttnntc cnaaatnngn naanccctga ggnggnaanc ntnttggngt 540
tntnncngat tnnngnaccc ccncnngcag anntcnttgn nnccttantn ccgggggnta 600
nacccttcct ttaaaancnc nntgntntna aaaannnttt ncctgancna tcgggntaaa 660
ncnnnttttt tgaaaaaccnn ggcttttttnn aanangctcc gntnggcnaa ctttggggaa 720
naagggnnttt ttttaaggcct tgcttttttag ggccanccta angngannnn ncngttgngt 780
tgnnngatgg ttttttagggg ttcccgggtg ggaccttnt tggggggaaa ttttggngcn 840
aggggntccc cttnaagaaa tccnnnttcc nggnencnaa ttncnnaaa aattnnnggn 900
ccnaaanntt tnattgggaa ggnccctttg ttgccccnt aaanggnccn naaaccttta 960
aanggggggn gcntttaatg gncctttcn ggncccnaaa aaanggggnc ccccnnttt 1020
nagg 1024

```

```

<210> 51
<211> 1024
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 51
gngnnnnntt aactcccgt tggtaccgag ctccgatccc tagtaacggc cgccagtgtg 60
ctggaattcg cccttagcgt ggtcgcggcc gaggtacttt ttttttcttt tctttctttt 120
tttttttttt tttaattttt gagatggagt tttgctcttg ttgcccacgc tggagtgcaa 180
tggcgcaatc ttggctcatt gcaacctcca cctcccggat tcaagcgatc cttctgcctt 240
agcttcccaa gtagctggga ttatagacgt gtgccaccat tcccagctga tttttgtatt 300
tttagtagag atgggggttc accacgttgg ccaggctagt ctggaactcc cgacctcatg 360
tgatcctccc accgcagcct cccaaagtgc tgggattaca ggcgtgagcc accatacccg 420
gttgattgta gacttttgat tggtatttac aaggaccat gagaggcaac aaagagaagt 480
tgtcaagaga acagaccctg agaccaatag tttggctcaa gctctggctc cctaacttcc 540
taccagtttg acctgggca agttacctaa catctttgtg cctccatttt ctatttgtaa 600
aaggaaacta atagtagtgc ctactttata atagagttaa tacaatatatt aaatgagtta 660
atatttgtaa agtaattaga aaaatgcctg gcacttcaa agcagccttc atttattctt 720
tggaataaat tttaaatgaa ttcaagggtt atatgtagct tttaggcata tatnccctaaa 780
tggcactgta aaactgcana aatatccgat ctttaaaaaa ttttgggtaa atttatcata 840
atatggnaac caaatcccat ttaatggctt ttaggggtan ccgatnaaaa ccngaagttt 900
gcagtttaag ccncttatgg aangggaccc gaaattccaa ggancannnn gggaaaaaac 960
ccnngagga atnttgccg ntttaantta aancctttg gtnttttaag nncctaaaaa 1020
nttt 1024

```

```

<210> 52
<211> 1024
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 52
gngnnnnnt tnnngntcng antgggccct ctatagtcgt gctcgagcgg ccgccagtgt 60
gatggatatt tgcagaattc gcccttcgag cggccgcccg ggcaggctact tcaaaactat 120
tcataagcaa aaatcagtgt caaaaatatt tagtaactta aaaaaaacia aaagtataag 180

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tagagacgga	caagaactcc	tectgcttcc	tcccactggg	ctcatcgat	ttctgttcca	240
ttacataaga	gactaaaact	gacaaaactct	gttttatcgc	taacacctaa	aagcaataaa	300
tgtgatttgt	taccatatta	tgataaaatt	taacaaaaaa	attttaaaga	tcggatatcc	360
tgcagtttac	agtgcatttt	atgtatatat	gcctaaaagc	tacataataa	ccttgaattc	420
attttaaatt	atttccaaag	aataaatgaa	ggctgctttt	gaagtgccag	gcatttttct	480
aattacttta	caaataattaa	ctcattttaat	atttgaata	actctattat	aaagtaggca	540
ctactattag	tttcttttta	caaatagaaa	atggaggcac	aaagatgtta	ggtaacttgc	600
ccaaggtcaa	actggtagga	agttaggagg	ccagagcttg	agccaaacta	ttggtctcag	660
gggtctgttc	tcttgacaac	ttctctttgn	tgctctctcat	gggtccttgt	aaataccaat	720
caaaagtcta	caatcaaacc	gggtatgggg	ctcacgcctg	taatcccagc	actttgggga	780
ggctgcggtg	gggaggatcc	ccatganggt	ncggagttcg	agactagcct	gggccaacgt	840
ggnggaaacc	ccatctntac	taaaaattcc	aaaatcanct	ggggaaggng	ggcacacgtc	900
tataatccca	cttccttggg	aagcttaagg	ncnnaaggac	gcttggaaac	ccggaanggn	960
gnggttcaat	ggancccaaa	atgngccatt	ggnctttcnc	gngggccaac	angagccaaa	1020
ntcc						1024

<210> 53

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 53

gggnnnnnnn	tnncttaacg	cccgnntggg	accgagctcg	gatccctagt	aacggccggc	60
agtgtgctgg	aattcgccct	tagcgtgggc	gcggccgagg	tacattactt	ggtgttaaca	120
ttggtggcag	tggtagcccc	ttttcagaaa	gcaacttgct	gtaagtcagg	gtgtccgttc	180
caaccttcag	ctagtgaata	ggtagtaaca	aatggtaaac	aagagaatga	ttgtttaaac	240
ctatctgtgg	acacttaatg	caactgttta	aaaatgataa	tcacgagtta	tgtagcaacg	300
tggaaatata	tttacagaac	attaagtggg	gaaagcagga	cacgaaagta	tatttatact	360
acagttataa	ctcaacagtt	catttatatg	ctgttcattt	aacagttcat	ttaaacagtt	420
cattataact	gtttaaaaat	atatatgctt	atagtcaaaa	gctgttgtgg	tggtgttgtt	480
gtaggcttat	agttgagcat	tattttctta	aattttctga	atgttcttta	tggtagtgtt	540
actaaaaagt	ttagatcac	attttcattg	tgaacataat	ttgaactcat	tatcacacac	600
ttgtaaaaaa	cagaaaagtg	gaggaaaaaa	aatcatatcc	ccaccatcca	aagacatata	660
ctctctcttt	atcttgntca	ttcttgggtc	tgngcacagg	tttatgatta	taactgngtc	720
aaaatgtata	ttcaaaatag	ctggtacatt	acctttgngg	nattatgggt	aaatctttca	780
cttttaattt	ttcaaaagtc	cctatnataa	tggccccgat	aaccgnggga	tttaaggggg	840
ctcccattgg	gggcataatn	cataccnnga	ggaaaaattn	naaaattaag	gnaantattt	900
ttaaaaaatt	ncctatatatt	cccaaaacct	aacaactact	ggtaaaaaatn	ttggaccggn	960
tccccctatt	ntnggttaan	ggcccaccct	ttgggnaaaa	ccggggtnaa	aaattggggc	1020
ctaa						1024

<210> 54

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 54

ggagnnnnnn	tnnngtttgg	gccctctaga	tgcattgctg	agcggccggc	agtgtgatgg	60
atatctgcag	aattcgccct	ttcgagcggc	cgcccgggca	ggtacttttt	tttttttttt	120
tttttttttt	ttacatttat	gcatacttat	cactaacacc	ctaataatca	cagactagtg	180
cacagatcaa	gatgttaaca	gttaattggt	gttgggtggt	gggaatatgt	gtgaattttc	240
tttactgaat	ttccaaagtt	ttgtatgagt	atgtattata	tttgtaatgg	aaaatacata	300

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cataaaatattt attaccaaaa caccaaaagat tatttaagga atttgagaca aaatatttaa 360
ccaaattccc acaatgacaa cactatttta gttattttcc acatcttttc atttaagact 420
ttatgcacac atatttaaca ctggtatcac aagcgtgtgc actgaaacaa gatagaggaa 480
acagatcaag atgttagcag tagttgttag gtgttgggaa tataggtaat tttttaaaat 540
aatttactttt attttctaatt ttttcctctg ggtatgtatt atgcacacca atggagacac 600
acataataca ctggtatcag gacattatta taggggaacat ttgaaaaaat taaagtga 660
gtatttaacc ataattccac aaaggtaatg taacagctat tttgaatata cattttgaca 720
cagttataat cataaacctg tgcacagaaa cnagaatgaa cnngattaga ngagagtata 780
tgtcttttga tgggtgggat atgaattttt cctncacttt tctggatttt nccagtgtgn 840
gaaaaatgag ttccaaaata tgggtcncaat ggnaaatgng ancntnaacc ttttagtanc 900
ccttnccttn aggaacattt caggaaantt tannaaaata anggctcaac ttttaggcct 960
acannancaa ccccncaaaa ggnnttttgac tntttanccn tntatatattt taaccggttt 1020
taan 1024

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```

<210> 55
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (1024)
<223> n = A,T,C or G

```

```

<400> 55
gnngnnnnnnn ttaactccag cttggtaccg agctcggatc cctagtaacg gccgccagt 60
tgctggaatt cgcccttagc ggccgcccgg gcagggtacct cacatgggaa acatgggaa 120
taaaaccacc tgaggagcct cttgatggtg agtcaggctg ttcctcgaa agtaggctgt 180
gactgccaaa cttttaggtg taaggagtat ttataatgat ctttgaggaa actgcaactg 240
acaattgagg gaaaaaaaatg ttagttcatg actgcaaaaat acatgacaga atcacaaaaa 300
ctattttaca agtttaaaaa acaaacctga tgctgatgca tggcaggcga accccaaagt 360
ggggcttagc ctgcaagggt tcttggtctc acccaggaaa ggattcaagg gcaagccagt 420
ggtaagggtg aagaaaacac ctttatcaaa gcaacactgt tacagctcct gtggggtcac 480
agctcagtg ctgctcccag ggttgcccga taggcagggt gccgagagta gcagctgagc 540
ccagttttgc agtcatatgt atacctactt ttaattacat gcagattcag ggggtggttg 600
cgcagaaaatt gttaggaaaa ggggtgtaac ttttgggtca tcagggtcatt gccgcttaa 660
gtggtggtaa tgcctgagtt ttgccatggc aatggtaaac tgacaaggca cgctgcttgg 720
tgtgtcttac agaaagctgc ttncgctctg nccttggtta nctagccctc gancntttgg 780
ttgtaaaatga accaagagaa gtacccggcc cttggcggtt tcttcccaga agtacccttg 840
ggccgggaan cacgcttaag ggccaaattc ttgcagatat ccatnacact tggcnggncc 900
gnttcancct tgcattttaa aagggcccaa tttgnccctt taaanggaat cgantaccaa 960
ttnnnntggg ccgcgtttta acaacgtnnn ggacttggga aaanccctg ggttacccta 1020
antt 1024

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```

<210> 56
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (1024)
<223> n = A,T,C or G

```

```

<400> 56
gnagnnnnnn ttngtttnc gantgggccc tctagatgca tgctcgagcg gccgccagt 60
tgatggatat ctgcagaatt cgcccttagc gtggtcgcg cagaggtact tctgggagaa 120
aacgccaaag ccgtgactct cttgctcatt tacaacaaa agatcgaggg ctagctaaac 180
aaggacagag cggaagcagc tttctgtaag acacaccag cagcgtgcct tgctagttta 240
ccattgccat ggcaaaactc aggcattacc accactttca gcggcaatga cctgatgacc 300
caaaagttac cacccttttc ctaacaattt ctgcgcaaac caccctgaa tctgcatgta 360
attaaaagta ggtatacata tgactgcaaa actgggctca gctgctactc tcggcaccct 420

```

```

gcctatgggg caaccctggg agcagtcact gagctgtgac cccacaggag ctgtaacagt    480
gttgctttga taaagggtgt ttcttcacc ttaccactgg cttgcccttg aatcctttcc    540
tgggtgaagc caagaacctt tgcaggctaa gcccactttt ggggttcgcc tgccatgcat    600
cagcatcagg ttgntttttt aaacttgtaa aatagttttt gtgattctgt catgtatttt    660
gcagtcatga actaacattt tttccctca attgcaagtt gcagtttctt tcaaagatca    720
ttataaatac tccntaacc cacaagttt ggcaagtcac agnctactct ttgaggaaaca    780
agcctgactt accatcaaga agcttccttn anggggntta cnttccatgg tttcccatgg    840
tgaaggancc tgncccgggc ggccgnttaa gggcgaaatt caacacactt gggnggccgn    900
tnnnntaang gatccnaact tggganccaa annnttgggg naaannatgg gnnnnnaact    960
ggnnnccggg ggggaaaatg gtatnccgnt tccaatttcc ccncnanntt tnaancccg    1020
gaan                                         1024

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<210> 57

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 57

```

gngnnnnntt nantnaacgc cagcttggtg ccgagctcgg atccctagta acggccgcca    60
gtgtgctgga attcgccctt agcgtgggtcg cggccgaggt actcatcact gacttgaagc    120
ttagtatctg gcttccttaa ggatgtaact ttcattgtaac agattaataa cttatatgaa    180
aaccaacaca accatattgt tagggctgga aagggccatg acgcctgggtc atttttctctg    240
ttttacctta ctcttatgtg tgtcacactt catcaattcc ggaaacagtt tctggagatc    300
tcctcattac ctcttttaca atcacctcac tccagcatgg tgtctgttac ctcttccac    360
ttgtgacaat gtctagtaag gtccactctc cattctgtgt gatgaccact tattacaacc    420
ctcagaatag gggacagtgg tgtgccccct gcaatacaat ggtttctatc tcctgatact    480
tttattacac ctctagcagg atgtcttgtg atcctcctta ttgatttttc cctcacgatg    540
atgaacaatt atctcccgtt actcacctag cagtatctaa ctgtccctaa cacagcatgt    600
gggaatgccc tcaatacggg ggatgctgnt aactttcttc ctccccctca ggcaatggcg    660
gtgacttaca atgaaccata atggccacat tccccactg nattttggaa cctcttctgn    720
ccccctcttt ctagganccc agttaaaaa aaaaaaccaa aactagcccc aatgncgtgtg    780
atgcccatta atcacttacc cagggtgan cctncatta aanttttgat gggatctctt    840
tggnttccca attggccgtt naacccaagn ctgntggatt cccaantnc cccattgntt    900
taatgcgggt cccttaanca ncccttgnt actggacctg gccngggngg gcccttttaa    960
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aang                                         1024

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<210> 58

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 58

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gngnnnnntt nngtttggcc ctctagatgc atgctcgagc ggccgcccagt gtgatggata    60
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aggaaccgca tgaagcaatg tgggaaattg ggaatcagca gacattgggt taacgggaca    180
atggggagcc aagagatacc atcaaaattt aatggagggg tcagacactg tgttagtgat    240
taatgggcat caacagacat tgggctagtt tttgtttttt ttttttaact ggggtcctag    300
aaagaagggg acagaagagg ttccaaaata cagttgggaa atgtggacat tatggttcat    360
tgtaagtcac cgccattgcc tgagggggaa gaagaaagt aacagcatcc accgtattga    420
gggcattccc acatgctgtg ttagggacag ttagatactg ctagggtgagt aacgggagat    480
aattgttcat catcgtgagg gaaaaatcaa taaggaggat cacaagacat cctgctagag    540

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gtgtaataaaa	agtatcagga	gatagaaacc	attgtattgc	agggggcaca	ccactgtccc	600
ctattctgag	gggttgtaata	agtggtcac	acacagaatg	gagagtggac	cttactagac	660
attgtcacaa	gtgggaagag	gtaacagaca	ccatgctgga	ntgaggtgat	tgtaaaagag	720
gtaaatgaaga	gatcttccag	aaactgttcc	cggaattgat	gantgtgacc	cnccttaaga	780
ntaaggtaaa	acaggaaaaa	tggnccagge	gtnatnggcc	cttttcagnc	cttaaccttt	840
attggtgggg	tggtttcata	taagttant	aatctggtn	cctgaaagtt	tccttccttt	900
anggaaaccc	gantcctaan	cctttnaagt	ccnnggatga	gacccttgg	ccgggaaccc	960
cccttaaggg	cgaaattccn	nccacttgg	gngggccnt	nncttaaggg	acccaacttg	1020
ggcc						1024

<210> 59

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 59

gagnnnnnt	taactccgc	ttggtaccga	gctcgatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggtcgccgc	cgaggtaacct	ggttttcttt	caactcttca	120
atttcccatc	ttccatcgta	tattgaaatt	tctcctccca	tgtcatcttt	ctttgctttt	180
gataagaccc	atccagccaa	ccttccacta	tcaaaagttt	ctgcaaaata	tacttctcct	240
ataggttgag	gtgtcttata	tttaattctt	gaggaaagtt	cactttcatt	aacatcaatt	300
tcttctgaat	tttcttcaaa	gtcttccgtc	tcaacatcat	catccataaa	ttctgcatta	360
attgagatga	acagaagacc	caaacataac	caaaaggctt	ggaaatgcat	attgattatc	420
tcttctgagg	cctgttttcg	gcagtgcag	ctcagatgtc	caagtcggtg	ccacttggtc	480
cccgcgtctc	ttcagaccag	tccccccgc	gtacctgccc	ggggcgccgc	tcgaaagggc	540
gaattctgca	gatatccatc	acactggcgg	ccgctcgagc	atgcatctag	agggcccaat	600
tcgcctcata	gtgagtcgta	ttacaattca	ctggccgctg	ttttacaacg	tcgtgactgg	660
gaaaaacctg	gcgttaccca	acttaatcgc	cttgcagcac	atcccccttt	cgccagctgg	720
cgtaataacg	aaaagccgc	accgatcgcc	ctttccacag	ttgcccagct	gaatggcgaa	780
atggaccccn	ccctgtancg	gcgcattaan	ccnccngcng	gttnntgggg	tacccccaac	840
ggggaccggg	acactttgnc	aagggcctaa	cgncgggttc	ntttggtttc	ttncctttcn	900
ttnttngcac	gttngnccgg	nttttcccg	naagctttaa	aatngggggc	ttcccccttt	960
angggtcen	aataaagggt	ttacggganc	ttgaaccccc	aaaaaacctt	gnnttnaggg	1020
ggga						1024

<210> 60

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 60

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atggatatct	gcagaattcg	ccctttcgag	cggccgcccg	ggcaggtagc	cgggggggac	120
tggtctgaag	agacgcgggg	accaagtggc	aacgacttgg	acatctgagc	tgtcactgcc	180
gaaaacaggc	cgcaagagag	ataatcaata	tgcatttcca	agccttttgg	ttatggttgg	240
gtcttctggt	catctcaatt	aatgcagaat	ttatggatga	tgatgttgag	acggaagact	300
ttgaagaaaa	ttcagaagaa	attgatgtta	atgaaagtga	actttcctca	gagattaaat	360
ataagacacc	tcaacctata	ggagaagtat	attttgcaga	aacttttgat	agtggaaagt	420
tggtctggat	ggctcttatca	aaagcaaaga	aagatgacat	ggatgaggaa	atttcaatat	480
acgatggaag	atgggaaatt	gaagagttag	aagaaaacca	ggtacctcgg	ccgcgaccac	540
gctaagggcg	aattccagca	cactggcggc	cgttactagt	ggatccgagc	tcggtaccaa	600
gcttggcgta	atcatgggtca	tagctgtttc	ctgtgtgaaa	ttgttatccg	ctcacaattc	660

cacacaacat	acgagccccg	aagcataaag	tgtaaagccc	tggggtgcct	aatgagtga	720
ctaactcaca	ttaaattgct	tgcgtcact	ggccgcttct	cagtcnggaa	accctgtcgt	780
gccagctgca	ttaatgaatc	ggccaacgcc	ccgggggaaa	aagcggnttg	cgtattgggc	840
gctcttccct	ttcttgntta	cttgactcgc	ttgggcttcg	tcgttcggct	gcggcnaacg	900
gnatcagctt	actcaaangc	gggaaatacg	gtantcccca	gaatccnggg	gattaccccn	960
ggaaaagaac	ctgtgagccn	aangggcccc	aaangggccn	gaaccntaaa	aaangggccc	1020
tnnn						1024

<210> 61

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 61

gggnnnnnnt	tncttacacg	cccgtttggt	accgagctcg	gateccctagt	aacggccgcc	60
agtgtgctgg	aattcgccct	ttcgagcggc	cgcccgggca	ggtacaaatg	gttttatgtc	120
accaattttg	ctgcaagaat	gggaactgct	tttaaatctg	taaatagctc	ttacattttg	180
ttgtatgcac	ttcttttcta	ctatggctgt	caacacttgt	gtagggttta	atttctaaat	240
tggtggcatg	ttctttttct	caggctattc	agaagtaaca	acatttttca	tttcagacat	300
gcaatcacct	attaatgatg	aaatatttta	ccactttggg	aatattttaat	tagtttagtc	360
atggagaata	cttcccacat	tttaagattt	ttcaaatac	actgtcattt	ctatttttagc	420
attttatcaa	attattgctt	ttttatttta	taataaggct	taagacagat	tatagacctc	480
cttaagagat	gagtttcttc	ttctaaaaat	gcatgttgat	agaggactat	ttaggcta	540
cggaggaatc	attaagaaag	aaagttttaa	cactgtttat	ccctatctgc	tttcttgca	600
ctttttctgt	gaaaaatatt	ttctgtttgc	aaaatcttcc	ctgagttctg	aacccagcac	660
catcagtacc	tcggccgcga	ccacgctaag	ggcgaattct	gcagatatcc	atcacactgg	720
cggccgctcg	agcatgcac	tagaggggcc	aattcgccct	atagtgaagc	gtattacaat	780
tcactggccc	gcgnttttac	aacgtcgtga	ctgggaaaac	ccctgcgtta	cccaacttaa	840
acgcccctgc	agcacatccc	ccttttgnc	aantgcgtaa	ttacaaaaaa	ggcccgnaac	900
gaacggccnt	ttcccaaagg	tggcncaacc	ctgaaatggc	aaatgggccc	cccccttgaa	960
ccgngccnt	taanccccc	nccgggnntt	tnggggtccc	cccacggnga	nccgttaa	1020
ttgc						1024

<210> 62

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 62

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atatctgcag	aattcgccct	tagcgtgggc	gcggccgagg	tactgatggg	gctgggttca	120
gaactcaggg	aagattttgc	aaacagaaaa	tatttttcac	agaaaaagtg	caaggaaagc	180
agatagggat	aaacagtgtt	aaaactttct	ttcttaatga	ttcctccgat	tagcctaaat	240
agtcctctat	caacatgcat	ttttagaaga	agaaactcat	ctcttaagga	ggtctataat	300
ctgtcttaag	ccttattata	aaataaaaaa	gcaataattt	gataaaatgc	taaaatagaa	360
atgacagtga	tatttgaaaa	atcttaaaat	gtgggaagta	ttctccatga	ctaaactaat	420
taaatattcc	caaagtggta	aaatatttca	tcattaatag	gtgattgcat	gtctgaaatg	480
aaaaatggtg	ttacttctga	atagcctgag	aaaaagaaca	tgccaacaat	ttagaaatta	540
aacctctac	aagtgttgac	agccatagta	agaaaagagt	gcatacaaca	aatgttaaga	600
gctatttaca	gattttaaag	cagttcccat	tcttgacgca	aaattgggtga	cataaaacca	660
tttgtaacctg	ccccgggcgg	ccgctcgaaa	gggcgaatct	cagcacactg	gccgnccggt	720
acttagtgga	tccgagctcg	gtccaagcct	tgcgtaaatc	atggnccata	ntggttccctg	780

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nggtgaaatt ggtatccccg tcacaatttc nccccancat acgaanccgg aagccntnaa      840
gngtaaaaanc cctgggtggc ctaatgagtg aactaactca catttaaattg cgtgcgctta      900
ctggcccggtt ttccaatcng ggaaanctgt cnggccact ggntttaang aatcgccan      960
gccccnnggg gaaaaaagng gttgcnnatt gggccctttt tcggttcctt ggttantgga     1020
atcn                                           1024

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<210> 63
<211> 1024
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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<400> 63
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aaaaatgttc atttttgccc cagtaaatgg agactgcttg tacttttttt tttttttttt     180
tttttttttt ttattaaaaa actgagtttt atttcacatg tatatttttg tctccccacc     240
atttccatgt ctgaccaccg ctactactat gtccatcat aacattccat acatacttaa     300
aaccaagcaa aggggtggagt tccatcttta aaaactaaac ggcatttttg acaacacatt     360
cttggcaata naacctggac aacatttatc aaacacggta gggaaagtgc tcactctgca     420
ttataaaaag gacagccaga tatcaactgt tacagaaatg aaataagacg gaaaattttt     480
taacaaattg tttaaactat tttcttaaag agacttcctc cattgccaga natcttgaat     540
agcctcttgg tcagtcatcc ggaagcaatt ctacacataa ttgatgaatt tggcttccac     600
tttgggaaga gaaccacctt tttctatact tgcttgcat tttgctttaa tgncttctac     660
agaactaggt ccttttgngg ttttaggagt ttttctctgn ttctgaagg attcttggcc     720
ttttganctt ggggttgaaa ganggnnttg agtcttttca ttctgaattg acttttgggc     780
atttttggct ggagnatctc ggatagattt ctactcggg gctttttctt nagntttcct     840
catatcaaaa tcntcatcat catcancctt atnaanaatc cctttaatna anacggnat     900
tnatntttat tnagcngcaa ggtttacttt ttttctgggg gaanctttgt tancctttt     960
cagggggcaa aaccgggttt ccaaaaatnc ccttaanaat ttnccaaanc cncncnctt     1020
ttaa                                           1024

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<210> 64
<211> 1024
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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<400> 64
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gtgatggata tctgcagaat tcgcccttag cggccgcccg ggcaggtaca gccaacggtt     120
tcccttgggg gctttgaaat aacaccacca gtgggtctta ggttgaagtg tggttcaggg     180
ccagtgcata ttagtggaca gcacttagta gctgtggagg aagatgcaga gtcagaagat     240
gaagaggagg aggatgtgaa actcttaagt atatctggaa agcggctctg ccctggagggt     300
ggtagcaagg ttccacagaa aaaagtaaaa ctgtgtgctg atgaagatga tgacgatgat     360
gatgaagagg atgatgatga agatgatgat gatgatgatt ttgatgatga ggaagctgaa     420
gaaaaagcgc cagtgaagaa atctatacga gatactccag ccaaaaatgc acaaaagtca     480
aatcagaatg gaaaagactc aaaaccatca tcaacaccaa gatcaaaagg acaagaatcc     540
ttcaagaaac aggaaaaaac tcctaaaaaca ccaaaaggac ctagttctgt agaagacatt     600
aaagcaaaaa tgcaagcaag tatagaaaaa ggtggttctc ttcccaaagt ggaagccaaa     660
ttcatcaatt atgtgaagaa ttgcttcggg atgactgacc aagaggctat tcaagatctc     720
tggcaatggg agaagtctct ttaagaaaat agtttaaacc atttggtaaa aaattttccg     780
tcttatttca tttctgtacc agttgatatc ctgctgtcct ttttataatg cnaagtggag     840
aactttccct accggttttg ataaatgttg gncaggttct attgcccaag aatgtgtgnc     900

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ccaaaaatgcc cgntagtttt tnaagatgga acttcacccn tttgcttggn tttaagtatg 960
nntngaangt ntgatnggac cntatnntna ccngngncaa ccttggnaaa tgggtggggag 1020
acaa 1024

<210> 65

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 65

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gtgtgctgga attcgccctt agcgtggtcg cggccgaggt actctgctga tctctgcctt 120
gtaatggaaa tgtttcattc attaatgtta ttgatatggt tgcactatgt ccgtaatttt 180
gctttttgtg tatctgtcta atgtttttta ttctctttt tctcttttac tattttcttt 240
taaattaagt aaatagttcc taacgtagta ttttattttc ttaaaataaa tcaaaactcac 300
ttataaaaata tatttcatat tactttctta tcgattgctg tatgccttac aacatacatc 360
ttatcagact caacattttat agtaacataa atccattgag acatagtaac attaatctct 420
tatagggtcta tttattctac ttattcaata attgttatat atatatata tctacatggt 480
acaaacacaa aaatatattg ttataatgct tgtttttatg taattttatg tcttttaaag 540
aacatgagag aagaaaaggaa agcaaaagtaa ctattagcat tgttatgtta acattattct 600
ttacaatttc tggttctctt catttttttc ctgttgattc aagttgtatc ttagtgatcat 660
ttcatttctt taatacaact ttgctccaat tatttctttt gtgctcttaa tgtcaaatat 720
attaagtttt gnttgcatat taggctcaac actattatac atatatggtt ttatgcattt 780
attttgaatt aagagaaaaa aaaaatatgc aatttaattg cttatatact attcatataa 840
ttaccctcta tgagggtncn ttatatatgn attccaaccn tatttataaa ntccaaanta 900
cctgggtangt gccnaaaggc tcctaagcct attagcccg aaaaaaatc cctgggtant 960
tccttggnaa gggaggtttg attgccacca acctntttta natnggggtg ggttttaata 1020
aacc 1024

<210> 66

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 66

ggagnnnnnn ttngntnngg gccctctaga tgcattgctg agcggccgccc agtgtgatgg 60
atatctgcag aattcgccct ttcgagcggc cgcccgggca ggtactccag cctgggtaac 120
agaggagagac tctatgccaa acaaacaaac aaacaaacaa acaaacaaatg gagaccagaa 180
agcaatgaga tgaaatgttc aaagtgtctg aagaaaaaaa aaggtcaacc aaaagtctta 240
tatccagaat atttttcaaa gtataaaaagc aaaatacatt ctcagataat aaaaacaaaa 300
caaaactaaaa gagtttgggt ctatcatacc tactttacaa gaaatactca gtgatttttt 360
tcaggctaatt aggctaggag catttggcac ctaacagtaa tttgaattta tatatatggt 420
tgtatacata tatatggaac actcatagag gtaattatat gaattagttat ataagacatt 480
aaattgcata tttttatttt ctcttaattc aaaataaatg cataaaacaa tatatgtata 540
atagtgttga gctataatg caaacaaaac taatatattt gacattaaga gcacaaaaga 600
aataattgga gcaaagtgtt attaaagaaa tgaatgaça ctaagataca acttgaatca 660
acaggaaaaaa aatgaagaga accagaaatt gtaaaagaata atgntaacat aacaatgcta 720
atagtactt tgccttctct tcttctctca tgncttttaa aagacataaa attacataaa 780
aaccaagcat tataacaata taattttggg tttgggaacat ggtagatgta tatatatata 840
ccattatttg ataagtagaa taaataggac tattaaggaa ataatggtac tatggctcaa 900
tgggantaag gtacctataa nggtgagcct gganaggaag natgttgnaa ggcttccggc 960
aatcggttta gaaagtantt tggaaatata ttttnatnaa gnggggttga ttaatttagg 1020

aaaa

1024

<210> 67
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 67
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gctggaattc gccctttcga gcggccgccc gggcagggtac tttttttttt tttttttttt 120
ttttggaaaa tgagattttt gactttaaca aaacaaatac agattgaatt taccaaatat 180
tgataattca tgtanaacgg gtgccacaga ttttaaagta tcaaaaccaa gagggcatca 240
caaaataaac ttggtgaaa aatatcttca tcaaagaaga aaatatgaga agagtagtcc 300
ttatgcagtg aggagaaata tatttggtaa agtaaataat ggtagtagat actgaatcta 360
tagatagcat atattccaaa tgttttttag ggaatatcaa atcagatgat gcttanatgt 420
tatagtaata tcacttatct catttggaat gaaatttaat gttttttaat aaatagcaaa 480
ttttcatttt ttactacct ttataaaaaca aattaaatat ttagagtata actgatcata 540
actaacatca ccttgcatct actaataaat actctaaata catttggttt attattggaa 600
tttatactct tataatttta cctgctagaa attagtgacc ttgtggcatt atgtttaaag 660
tttacatttt ccagtgatg tgaacagtat ttatacntaa aatggatata tgnccaatga 720
atagtaacca tgtttggtgg tttaaaaacc gnacatggtt tagtttgaca ttggcatgtc 780
tcttcagaaa ttnaaaaggt atcntttaag ggatggcttt tnggaaatca ttaataaact 840
accntctggg aaaangaatn ccaatttcaa gaagctacct aantagaact cagaccccn 900
gggcagggtt ttggnanaaa angctttcaa ttncaaattt nttntccggn gnaaacgaa 960
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gnnc 1024

<210> 68
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 68
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gatggatata tgcagaattc gcccttagcg tggctcgccg cgaggtagct agtagatcta 120
ctgagattaa acgggacctg tttggagcag aaccttttga cccatttaac tgtggagcag 180
cagatttccc tccagatatt caatcaaaat tagatgagat acaggagggg ttcaaaatgg 240
gactaactct tgaaggcaca gtattttgtc tcgacccgtt agacagtagg tgcagacatc 300
aagaacaaga aatcctgatt catgttaaat gtgtttgtat acacatgtca tttattatta 360
ttactttaag ataggatata ttcatgtgtc aatgttttta aatattttta tattttgaaa 420
attttctcag ttaaattttc tcaccttcac tattgatctg taatttttat tttaaaaaca 480
gcttactgta aagtagatca tacttttatg ttccctttctg tttctactgt agatgaattt 540
gtaattgaaa gacatattat acaaatacct gccttggtgc tgagtcttat ttagtttagca 600
tcttgaaatt tgtattcatt ttccagatgg ctagtattat aatgatttcc caaaagccat 660
accttaaga taacttttta aattctgaag agacatgcca atggcaaaact aaacatggct 720
tggttttaaa ccaaccaaca tgttactatt cattgggaca gatatacatt tatggataaa 780
tctggtcaca tactggggaa atggaaactt taaacataat ggccccangg cactaatttc 840
ttaccggtaa aaatnttang ggtttaaant nccatattna acccnatggt tttaaaggat 900
ttattntaaa ngcnngggga ngtaantttg acagntntcn ctaaaanttt aaatgggttn 960
ttaaaggtnn gaaaaaanga aaaattgctt ttttttnaaa acctttaant cntttccnag 1020
gggn 1024

<210> 69
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 69
 gggnnnnnnnn tnncttanac gccnnngett gtaccgagct cggatcccta gtaacggccg 60
 ccagtgtgct ggaattcgcc ctttcgagcg gccgcccggg caggtactcc ggtcggtgtc 120
 agcagcacgt ggcattgaac attgcaatgt ggagcccaaa ccacagaaaa tggggtgaaa 180
 ttggccaaact ttctattaac ttatgttggc aattttgcca ccaacagtaa gctggccctt 240
 ctaataaaaag aaaattgaaa ggttttctcac taaacggaat taagttagtg agtcaagaga 300
 ctcccaggcc tcagcgatcc tcggccgcga ccacgctaag ggcgaattct gcagatatcc 360
 atcacactgg cggccgctcg agcatgcac tagagggccc aattcgccct atagttagtc 420
 gtattacaat tcactggcgg tcgttttaca acgtcgtgac tgggaaaacc ctggcggttac 480
 ccaacttaat cgctttgcag cacatccccc ttccgccagc tggcgtaata gcgaagaggc 540
 ccgcaccgat cgcccttccc aacagttgag cagcctgaat ggcgaatgga cgcgcctgt 600
 agcggcgcat taagcgcggc ggggtgtggt gtacgcgca gcngtgaccg ctacacttgc 660
 cagcgcccta cgcccgctct ttccgtttct tcccttccct tctcgccacg ttcgcccggc 720
 ttccccgtca agctctaaat cgggggctcc cttttagggt tccgaattan tgctttacgg 780
 accttgaccc caaaaaactt gantanggtg atgggtcacg taatgggccc atnggccttg 840
 anaagacggt ttctcgccct ttgacngttg gagtccacgt tctttaaaag gggactcttg 900
 gttccaaact ggaacaacn nttaancctt atttngggct aatccttttg aattaatnag 960
 ggattttgcc caatttgggc ccttnggtta aaaaaagggg cttgntttta caaaaaattt 1020
 aacc 1024

<210> 70
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 70
 ggagnnnnnn ttnngtttgg gccctctaga tgcattgctc agcggccgcc agtgtgatgg 60
 atatctgcag aattcgccct tagcgtggtc gcggccgagg tacgctgagg cctgggagtc 120
 tcttgactcc actacttaat tccgtttagt gagaaacctt tcaattttct tttattagaa 180
 gggccagctt actgttgggt gcaaaattgc caacataagt taatagaaaag ttggccaatt 240
 tcaccccatt ttctgtggtt tgggctccac attgcaatgt tcaatgccac gtgctgctga 300
 caccgaccgg agtacctgcc cgggcccggc ctcgaaaagg cgaattccag cacactggcg 360
 gccgttacta gtggatccga gctcgttacc aagcttggcg taatcatggt catagctgtt 420
 tcctgtgtga aattgtttat cgctcacaat tccacacaa atacgagccg gaagcataaa 480
 gtgtaaaagg tggggtgcct aatgagttag ctaactcaca ttaattgctg tgcgctcact 540
 gcccgccttc cagtcgggaa acctgtcgtg ccagctgcat taatgaatcg gccaacgcgc 600
 ggggagaggc ggttttgcgt ttgggcgctc ttccgcttcc tgcgtcactg actcgtgctg 660
 ctccgtcggt cggctgcggc gagcgggtatc aagctcactc aaaggcggta atacngttat 720
 ccacagaatc aaggggatac gcaggaaaga acatgtgaac caaaaggcca caaaaggcca 780
 ggaacccgta aaaaaggccg cgttggctgg cgttttttcc atangcttcc ggcccccttg 840
 acgagcatta ccaaaaatcg acgtcgaagt tcaaagggtg cgaaancccg accggactnt 900
 taagaatccc agcgttttnc cctggaactt ccttgggcgc tttctggtt ccaaccttgc 960
 cgttaccgga tacctggncc gcntttttcc ctttngggaa accnngggc tntcaaaant 1020
 taac 1024

<210> 71
 <211> 1024

<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (1024)
<223> n = A,T,C or G

```

<400> 71
gagnnnnnt taactccgc ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt      60
gctggaattc gcccttagcg tggtcgccc cgaggtactt ttttttttc tttttttaca      120
tctgatttta atgcttcgtt aacttcaaaa ggaactggta gaggtcagaa ggtgagctgt      180
tggtttttcta aacctcttcc caggaagggg acattgacac ttgaattttt gtcacctttt      240
tcctcattag aaggaaagta gaaagcctta ctgtaggatt ttaaaaaaa aatccatctc      300
accccatatt ggtcttaaat aagtagagac taattaacct aagctacctt taacaacgta      360
gaatttagat ggggtccat atgtgagaaa aacctgaata taggacaggg gtcctacttt      420
tttccccacc tctgtcgccc aggttagagt atagtgggtg gatcttggcc cactgcaacc      480
tctgcttctc aggttcaagt gattctcctg cctcagcctc ccaagtagct gggattgtaa      540
gagtatgcca ccacgccag ctactttttg tatttttagt agagacaggg tttcatcatg      600
ttggccagga tgggtctctta actcctgccc tcaagtgatc caccagagag gagatcctcg      660
gcctcccaaa gtgctgggat tataggcatg agccaccgtg cccagcctac tttctaatta      720
attaaaaaaa aaaaaaaaaa ttcccaaagt agctgataaa aaactgacgt gaggtgctt      780
tgcttccaat aatacctagt ttccagctgt tccaaactcg ttccaaattg gaaattanct      840
ggaacnccac tacagtaatc ttcanggaan gggaaaatta ggccctaaaa gaatccccag      900
aaagttcanc atnggnancc tgnccnggcc ggnccgttca aaangggcna aatttgaga      960
aattccatna cacttgccgg gccgttcgan catggctttt aangggccca attgnccctt     1020
aaag                                                                    1024

```

<210> 72
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (1024)
<223> n = A,T,C or G

```

<400> 72
gnagnnnnnn tnnnttcg aattgggccc tctagatgca tgctcgagcg gccgccagtg      60
tgatggatat ctgcagaatt cgccctttcg agcgcccgcc cgggcaggta ccatgctgac      120
ttcttggtat cttttaagge ctaattttcc ctcccttgag attactgtag tgtgttccag      180
ctaatttcta tttgaaaacg agttggaaca gctgaaaact aggtattatt gaaggcaaa      240
cagcctcacg tcagtttttt atcagctcat ttgggaagtt ttttttttt ttttaattaa      300
ttagaaagta ggctgggcac ggtggctcat gccataatc ccagcacttg gggaggccga      360
ggatctcttc tctggtggat cacttgaggg caggagttaa gagaccatcc tggccaacat      420
gatgaaaccc tgtctctact aaaaatacaa aaagtagctg ggcgtggtgg catactctta      480
caatcccagc tacttgggag gctgaggcag gagaatcact tgaacctagg aagcagaggt      540
tgcagtgggc caagatcaca ccactatact ctagcctggg cgacagaggt ggggaaaaaa      600
gtaggacccc tgctctatat tcagggtttt ctcacatata tgaaccatc taaattctac      660
gttggttaaag gtagcttagg ttaattaagt ctatacttat ttaagaccaa tatggggtga      720
naatggattt ttttttaaaa atcctacagt aaggctttct actttccttc taatgaggaa      780
aaaggtgacc aaaantcaag tggcaatggc ccctttcttg ggaaaagt t anaaaaacca      840
ccggttanct tntggaactt ttacccagtt cccttttgaa gttaccgaag cctttaaaaa      900
cagatgttaa aaaaggaaan nnnaaaaagt ncctttggcc gggaaaccnc ttaagggccca      960
aattccacac acttgggggg ccgntnccnt anggatccca ncttgggncc aaannttggg     1020
gnaa                                                                    1024

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<210> 73
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 73
gagnnnnnnnt tnaacttacac gccngcttgg taccgagctc ggatccctag taacggccgc 60
cagtgtgctg gaattcgccc ttagcgtggt cgcgcccgag gtactgtggt atggcacaga 120
caatgcttgc ttagcgggtgc cttgtttacat aggtggatgc agagtgcgca cacgggatga 180
tggcaataaa gacctcactc agtcgttggga atgaaggaaac taggtaaactg cttcaacaag 240
gacgggtctca gctctacctt atctctcaac agagtgcaaa cactgagtgt gagctcagat 300
gtcatcttgt tctctctttaa aattcaccaa attcttttgc acatttttct gttatagaga 360
cacggatatt ttcttcttca tagtcatcaa agttgctggt atctccagag cctctaaact 420
ttggtatgaa tggagcttca accttctctt ggtaaatagc aatccaatct gtcgtggcaa 480
accacttggt agtttttata tcaactgacac cattcttttag atttccaaat ctcttgatca 540
aatccacctg cagcagggtc cgtagaaggt ccttgagatc tgaactgaag tgggatggga 600
atcggaacct tcagaaaca atcttttcat aaatctgaat tggttggtct gcaaagaatg 660
gggtagatgc agctgccatt tcatagatta gcactcctaa tgcccaccaa tccactgctt 720
tattgnagcc cttgctgaga attatttctg gagccaaata cctctggagt tccacataat 780
ggccaagtgc tgcctttaac tcttttggca aacccccaaa gtctgtgacc cgggatatag 840
ccctgatggg ccaattttaag aagaattttc angggtttaa aaactctggt aaatgaaggc 900
taanggaaat ggaggnacct tttttttttt nnnnnnnntt ttttttttaa acnttgtaaa 960
aggccaaaat tttggctana anttanttcc aaagnttnaa accntttcca aatttttttt 1020
taat 1024

<210> 74
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 74
ggagnnnnnn nttgagttcc ggccctctag atgcatgctc gagcggccgc cagtgtgatg 60
gatattctga gaattcgccc tttcgagcgg ccgcccgggc aggtacagtc aactgcattt 120
ttctctggtg accaagcttc cactgacaag gaagaggatt atattcgtaa tgcccatggt 180
ctgatatctg actacatccc taaagaatta agtgatgact tatctaaata cttaaagcct 240
ccagaacctt cagccctcatt gccaaatcct ccatcaaaga aaataaagtt atcagatgag 300
cctgtagaag caaaagaaga ttacactaag tttaatacta aagatttgaa gactgaaaag 360
aaaaatagca aaatgactgc agctcagaag gctttggcta aagttgacaa gagtgggatg 420
aaaagtattg ataccttttt tggggtaaaa aataaaaaaa aaattggaaa ggtttgaaac 480
tttggaaaata aaatctagca aaaatatttg ctttttacat gttttaaaaa aaaaaaaaaa 540
aaaaaaaaaa aagtacctcc attcactaga cctcatctac agagatctaa aacctgaaaa 600
tctcttaatt gaccatcaag gctatatcca ggtcacagac tttgggtttg ccaaaagagt 660
taaaggcaga acttggacat tatgtggaac tccagagtat ttggctccag aaataattct 720
cagcaagggc tacaataagg cagtgggatt ggtgggcatt aggagtgcta atctatgaaa 780
tggcactggc tatccccatt cnttgcagac ccacccattc agaatttatt gaaaaagatg 840
gttcttgga ngncgaatt cccattcccc ttcagntcna actcaagggc ctttttacgg 900
aancttggtt gcanggggga ttgatccagg anaatttgga aatcttaaa aaaaggggnc 960
cggggtttta aaaacctcnc aagnggggtt gccccancg naatgggatt ggtttttccc 1020
ccna 1024

<210> 75
<211> 1024
<212> DNA
<213> Homo Sapien

<220>

<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 75
gagnnnnnnnt taactcccgc ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt 60
gctggaattc gcccttagcg tggctcgcggc cgaggtagta tatgtatttt attaaaaatg 120
tggaagatta atctgtttct ctctgaatgt agattttcac caaaacatct cttaaaacag 180
cagggactca acacttaaaa atgaactaga agagctgggc acagtggctc acgcctgtaa 240
tcccagcact ttggggaggcc gaggcgggca aatcacttga ggtcaggagt tcgagaccag 300
cctggccaac atggtgaaac cctgtctcta ctaaaaacac aaaaattaac tgggcatggc 360
ggcacacgcc tttaatccca gctactcaag aggctgaggg aggagaatcg ctttgaacct 420
gggaggcaga ggttgacgtg tgctgagatc ataccactgc attccagcct gggcgacaga 480
gcaagactcc acctcaaaaa aaaaaagaag aaaagaaaat agtagtctca gccaggcgtg 540
atggctcaca cctgtaatcc cagcactttg ggaggccaag gtgggcagat cacctgaggt 600
caggagtctg agaccagcct ggccctacgtg gcaaaacctc atctctaata aaaatacaaa 660
aattagcttg ggcgtggtgg catgcacctg tcatcccagc tatttggggag gctgagacag 720
gagaagtcgc ttggaacctg ggangcagaa aattgcggtg aagctaagat cgcacgactt 780
cacttccacc tgggcaaaaag anggaactct atctcaaaaa aaaaaaangg aaaaagttagt 840
ctntaagaca ctgggcaaac cttgaaagga attgagcagt cctcactttt ctgnagtcan 900
tttgnatnaat gccacatggc tcttttgnaa gaaatttgag agcttttttc taatcccaat 960
ttttntaatt tgggaattcc tttttccgga ttttttcntt gccngngngt gttcccaang 1020
gcct 1024

<210> 76
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 76
gnngnnnnnnn ttnnnntgng antngggccc tctagatgca tgctcgagcg gccgccagtgt 60
tgatggatat ctgcagaatt cgccctttcg agcggccgcc cgggcaggta ctctttgtgg 120
ctggcttctt tttctgcaca caatgcctat gagaccataa ctaaaagtcaa attccatggg 180
cactaaccac taatggcatc tcaaagaaat tccaacctag agaaattctg atgatgtggg 240
tagaacacca atcaggacac tcacttcatg gttgataatt cccgacatgc actgattcag 300
accagctta ttgaattcat tgagtccaca ggcagcact ttgctgact gggccaacag 360
aaatgtccca tcacagccac attgaaactg aacaataatc aaggccttgg gaacatccac 420
ctgcaagaaa aaaaatcagaa aaagaaatcc caaatatata attcgtatta gaaaaaaagc 480
tctcaaatc tttcaaaaga gatagctgc atttagcaga atgactacag gaaagtggag 540
actgctctat tcttttcagg tttgcccagt gtcttagaga ctactttttc tttttttttt 600
tttgagatag agtttccctc ttttgcccag gctggagtga agtccgtgag atcttagctc 660
accgcaatct ctgcctccca ggttcaagcg acttctcctg tctcagcctc ccaaatagct 720
gggatgacag gtgcatgcca ccacgcccg ctaatttttg gatttttatt agagnatgag 780
gttttgccac gtaggccaag ctggncttga acttctgacc ctcaagtga tggccaccct 840
tgggccttcc aaagtgtctg gaattacagg gngagccatt acgcctgggn tgaaactcca 900
atttcttttc ttcttttttt ttttgngggg gagcttgctn tgcncccaag ctgggaaagc 960
cangggatga cttnnnnncac tggaaacctg gcttcagggt taaagggatt tctggcttaa 1020
nccc 1024

<210> 77
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)

<223> n = A,T,C or G

<400> 77

gagnnnnnnnt	aacttacacg	cccgettggt	accgagctcg	gatccactag	taacggccgc	60
cagtgtgctg	gaattcgccc	ttagcgtggt	cgcggccgag	gtactttttt	tttttttttt	120
ttttttttac	agaaggctgt	aaagctttat	tgggagaatt	ttaatgaaca	aattttcaac	180
ataggagcag	cctgcatcat	ttcaacgtgc	cttcttttaa	cactgtgatt	gcttttcacc	240
ttcttcaggc	gttttcacct	cctctggatt	tggcgggtcc	atctcctgcc	catcaggacc	300
atcttcacac	tcacacccag	tctgtgggtg	accctgttcc	tggctatgag	cttcaggcgt	360
cggcccttga	cctgcanatg	ctccctcatc	ctctccctcc	tgagcagctg	caggatcctg	420
acgttgagtt	gctggttccc	cttcttcagg	tggtgtggtg	tccgcttcat	caactgaactg	480
ctcgggccgc	ataggcccaa	tcatttcagg	aggctgnacc	tgcccgggcg	gccgntcgaa	540
agggcgcaatt	ctgcagatat	ccatcacact	ggcggccgnt	cgagcatgca	tctagagggc	600
ccaattcgcc	ctatagttag	tcgtattaca	attcactggc	cgtcgtttta	caacgtcggtg	660
actgggaaaa	ccctggcggt	acccaactta	atcgccctgc	agcacatccc	cctttcgcca	720
gtggcgtaaa	taacgaaaaa	ccccgcaccg	atcgcccttt	ccaacagttg	gccanctga	780
aagggcnaaa	tggacncccc	tggaaacggc	attaaccccc	gcnggnnnnn	gggtaccccn	840
caangngacc	ggtacacttg	gcaangccct	aacgcccgtg	ccntttgntt	ttctttcctt	900
tcnttttngc	acgttnnncc	gggttttccc	ggnaagctnt	naaatngggg	ggtecccntt	960
tnnggtccna	ataaggcntt	taggnccctt	ggnccccnaa	aaatttgntt	ttnnggggan	1020
ggtc						1024

<210> 78

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 78

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atatctgcag	aattcgccct	ttcgagcggc	cgcgcgggca	ggtacagcct	cctgaaatga	120
ttgggcctat	gcgcccccag	cagttcagtg	atgaagcgga	accagcaaca	cctgaaagaag	180
gggaaccagc	aaactcaactg	caggatcctg	cagctgctca	ggagggagag	gatgagggag	240
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ctgggtgtga	gtgtgaagat	ggctctgatg	ggcaggagat	ggacccgcca	aatccagagg	360
aggtgaaaaa	gcctgaagaa	ggtgaaaagc	aatcacagtg	ttaaaagaag	gcacgttgaa	420
atgatgcagg	ctgctcctat	gttgaaaatt	tgttcattaa	aattctccca	ataaagcttt	480
acagccttct	gtaaaaaaa	aaaaaaaaaa	aaaaaaagta	ctcggccgcg	accacgctaa	540
gggcgaattc	cagcacactg	gcggccgtta	ctagtggatc	cgagctcggt	accaagcttg	600
gcgtaatcat	ggtcatagct	gtttcctgtg	tgaaattggt	atccgctcac	aattccacac	660
aacatacgag	cccgaagca	taaagtgtaa	agcctggggg	gcctaattgag	tgagctaact	720
cacattaatt	gcgttgccgc	tcactgccc	ctttncagtc	gggaaacctg	tcgtgccagc	780
tgcattaatg	aatcggncaa	cgccccgggg	aaaaagcggt	ttgcgtattg	ggcgtctctc	840
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cttacttcaa	angcgggaaa	tccggttttc	cncggaaatc	aggggaatac	ccngggaaaa	960
gaacttgtag	accnaaaggc	ccnccaaaag	gccngnaac	cgtaaaaaan	ggccccntnn	1020
nnntn						1024

<210> 79

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G.

<400> 79
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gctggaattc gccctttcga gcggccgccc gggcaggtac tgtttttgtc atttgacca 120
gctttcttct ccaggaaaga tcaaaacgat gcaactgcaag gttaacatcc aattttta 180
acattgtgat tgggtccagat agctgcctta tccaactgcc tcctttggac cacttcatca 240
tgggacagct tgatgcaatc tacttgacaa gacctggaa cccacacccc ctcattggaac 300
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ccaccactta aaagtctcca cagaaaacct gtttgaatag tacctcggcc gcgaccacgc 420
taagggcgaa ttctgcagat atccatcaca ctggcgccg ctcgagcatg catctagagg 480
gccaattcg ccctatagtg agtcgtatta caattcactg gccgtcgttt tacaacgtcg 540
tgactgggaa aacctggcg ttacccaact taatcgctt gcagcacatc cccctttcgc 600
cagctggcgt aataagcgaa gagggccgca ccgatcgccc ttcccaacag ttgcgcagcc 660
tgaatggcg aaatggacgc gccctgtagc ggcgcattaa gcgcgggcgg gtggtggtgg 720
ttacgcccga gcgtgaccgc tacacttgcc agcgcctta cgcccgctcc tttcgtttc 780
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cctttagggt tccgaattan tgctttacgg gaccttganc cccaaaaact tggnttaggg 900
gtgagggtca cgtatgggccc attggccctg aaaaanacggt ttttcgcccc tttgaccctt 960
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ttng 1024

<210> 80
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 80
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tgatggatat ctgcagaatt cgcccttagc gtggtcgcg ccgaggtact attcaaacag 120
gttttctgtg gagactttta agtgggtggg ttaaagcaag caggcaagag ttccctgggg 180
tcacactgtg actgggaggt ggacactggt tccatgaggg gtgtgggggt ccagggtctt 240
gtcaagtaga ttgcatcaag ctgtcccatg atgaagtggg ccaaaggagg cagttggata 300
aggcagctat ctggaccaat cacaatgtat taaaaattgg atgttaacct tgcagtgc 360
cgttttgatc tttcctggag aaagaagctg gtgcaaatga caaaaacagt acctgcccg 420
gcggccgctc gaaaggcgga attccagcac actggcgccc gttactagt gatccgagct 480
cggtagcaag cttggcgtaa tcatggtcat agctgtttcc tgtgtgaaat tgttatccgc 540
tcacaattcc acacaacata cgagccggaa gcataaagt taaagcctgg ggtgccta 600
gagttagcta actcacatta attgcgttgc gctcactgcc cgctttccag tcgggaaacc 660
tgtcgtgcca gctgcattaa tgaatcgccc aacgcgcggg gaaaagcggn ttgcgtattg 720
ggccgctctt ncgcttncn gcttacttga ctgcgttgcg cttcgnccgt tcggcttgcg 780
gnaagcgggt attcagctta cttcaaaggc ggtaaatacn ggtattcccc agaaatcagg 840
gggatnacc cnggaaaaga acatgtgaan ccaaaaggcc accaaaaagg ncnnngaacc 900
gtnaaaaang gccncnttnn nnctgngttt ttccattaa gttcccgccc ccttgacagc 960
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taag 1024

<210> 81
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 81
gngnnnnnnt taacttacac gccagcttgg taccgagctc ggatccctag taacggccgc 60

cagtgtgctg	gaattcgccc	tttcgagcgg	ccgccccggg	aggtacctca	ttagtaattg	120
ttttgttgtt	tcattttttt	ctaattgtct	ccctctacca	gctcacctga	gataacagaa	180
tgaaaatgga	aggacagcca	gattttctct	ttgtctctct	ctcattctct	ctgaagtcta	240
ggttaccat	tttggggacc	cattataggc	aataaacaca	gttcccaaag	catttgga	300
gtttcttgtt	gtgttttaga	atgggtttcc	ttttcttag	ccttttctg	caaaaggctc	360
actcagtc	ttgtgtctc	agtggactgg	gctccccagg	gcctaggctg	ccttcttttc	420
catgtccac	ccatgagccc	tccactggac	agctcagtaa	gcctggccct	tcattctg	480
ctgtgttctt	cctctgtgaa	aatccaatac	ctcttacctc	ctctgcatgc	aaagattctc	540
aaggattgtc	agacttcaaa	cgtaacagca	gaaccaccag	aaggtcctat	aaatgcagta	600
gtgaccttct	caagctgtca	ggtctttaa	taggatttgg	gatttaatgc	tatgtatttt	660
taaaggaaa	aaataagaag	ttgctagttt	taaaaatgca	tgtcttttaa	ccaattcaga	720
atctgcccc	aaactttttt	naaaagtcaa	gacagataaa	gctttggggg	agacngaaaa	780
aaaaaannnn	nnnaaagagt	accttngggc	gggaacacgc	taangggcaa	attctggcan	840
aaatncatta	cactggggcg	gcggtttgag	cattgcntnt	anangggccc	aattngncct	900
ataanggggg	cgattacaat	tncctggggc	gcgtttttaa	acgttnngaac	tgggaaaanc	960
ctggggtncc	cacnttaatg	gccttggnga	naatccccct	tttncccnan	tggngnannn	1020
nncn						1024

<210> 82

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 82

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ttttccgtct	ccccaaagct	ttatctgtct	tgacttttta	aaaaagtttg	ggggcagatt	180
ctgaattggc	taaaagacat	gcatttttaa	aactagcaac	tcttatttct	ttcctttaaa	240
aatacatagc	attaaatccc	aaatcctatt	taaagacctg	acagcttgag	aaggtcacta	300
ctgcatttat	aggaccttct	ggtggttctg	ctgttacgtt	tgaagtctga	caatccttga	360
gaatctttgc	atgcagagga	ggtaagaggt	attggatttt	cacagaggaa	gaacacagcg	420
cagaatgaag	ggccaggcct	actgagctgt	ccagtggagg	gctcatgggt	gggacatgga	480
aaagaaggca	gcctaggccc	tggggagccc	agtcactga	gcaagcaagg	gactgagtga	540
gccttttgca	ggaaaaggct	aagaaaaagg	aaaaccattc	taaaacacaa	caagaaactg	600
tccaaatgct	ttgggaactg	tgtttattgc	ctataatggg	tccccaaaat	gggtaaccta	660
gacttcagag	agaatgagca	gagagcaaa	gagaaatctg	gctgtccttc	cattttcatt	720
ctggtatctc	aggtgaactg	gtaaaaggga	gacatttgaa	aaaaatgaaa	cnaccaaaa	780
cattactaat	gaggtacctg	cccnggcngg	ccgttcnaaa	gggccaattc	cacacactgg	840
gcggccgtta	cttaatggat	ccnaactcgg	taccaancnt	tgcgtaaate	atgggccnnt	900
actgggttnc	ctgggggnaa	atggtatnec	gttaccaatt	ccccccaann	ttcgancccc	960
gaanccctta	agggtaaaanc	cctggggggc	ctnaagaggg	gctaacttcc	catttaaattg	1020
ggtt						1024

<210> 83

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 83

gggnnnnnnt	taanttanac	gccnnncttg	gtaccgagct	cggatcccta	gtaacggccg	60
ccagtgtgct	ggaattcgcc	ctttcgagcg	gccgccccgg	caggtaacct	taaaattggg	120
gccgagcagg	gatataacct	gcagttaagt	gaaaaa	tccagcctcc	ccctccaaaa	180

aaaaaaaaaa	atttaatttt	taaaaattag	tggtatggca	ataagacact	tcagaggcta	240
tcttaacctc	tgaataccca	tcttctagtt	taaagacaga	gacatcccat	ctggaaaatg	300
ttaaactgtg	ttgtcatctc	gttgccggag	taagtagaca	taagacagag	tttaagaagt	360
aaaaatatag	aaaaattttg	atggtcacaa	tgagataaat	attagaatat	tactattcca	420
atgattaaat	gaggatcttg	aaataaattc	tgaagtcttc	caatttttac	atttattgga	480
ggggtccttg	agttctgtca	acttttttat	ttaagtcctc	tgtctttatt	ttgtgcataa	540
atgttaaacc	ttccaaaaat	gaaatgttag	ctttctttct	tttacttttt	attaaattta	600
atagaaaata	tgacctgagt	agttaaaaag	tattttgcat	tatttgcatg	aagatgtctc	660
tagacttgct	caaagggcaa	attttaaaac	ttcagtcctg	gtgaaagatt	ttgctagttt	720
tacagaaaga	tttgctatct	taaactcaaa	gctgggtttt	cttttctcaa	tgtaagtgc	780
tgggatgctg	gcttaagaat	tctttccaag	gncatgtttg	tgaaataaac	cttacatgag	840
agctttcctg	ncatctacnc	ctatatgtgg	cctngagggt	gaccaaattt	antttagntt	900
ctaagtgtaa	nctatcccaa	atgggctatc	caaatttgaa	tgnggccctt	catactgnga	960
aggaaaaang	tggnccctng	ccgggaacac	ccttangggc	caattttgcg	anttcctnac	1020
aatt						1024

<210> 84

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 84

gnagnnnnnn	ttgagntngg	ccctctagat	gcattgctcga	gcggccgcca	gtgtgatgga	60
tatctgcaga	attcgccctt	agcgtggctg	cgggcgagggt	acagcattat	catctcagta	120
tgtagtggca	cacattcaaa	atcgtataga	ccatatgagg	atagattaca	acttagaac	180
taaaataaat	ttgttcaaca	ctccagacaa	catatagtgt	agatgacagg	aaagctctca	240
tgtaatgttt	atttcacaaa	catgaccttg	gaagaattca	taagacagca	tcccagtcac	300
ttacatgaga	aaagaaaaac	cagcttgagt	ttaagatagc	aaatctttct	gtaaaactag	360
caaatctttc	accagactg	aagttttaaa	atttgccctt	tgagcagtgc	tagagacatc	420
ttactgcaaa	taatgcaaaa	tactttttaa	ctactcagggt	catattttct	attaaattta	480
ataaaaagta	aaagaaagaa	agctaacatt	tcattttttg	aagggtttaac	atttatgcac	540
aaaaaagag	caagagactt	aaataaaaaa	gttgacagaa	ctcagggacc	cctccaataa	600
atgtaaaaat	tggaagactt	cagaatttat	ttcaagatcc	tcatttaatc	attggaatag	660
taatattcta	atatttatct	cattgtgacc	atcaaaaatt	ttctatatatt	ttacttctta	720
aactctgnct	tatgnctact	tactccggca	acgagatgac	caccacaagt	taacattttc	780
cagaanggat	gtctctgnct	ttaaaactaga	aagatgggta	tttcagaggg	taagaatacc	840
ctctgaagtg	gtcttaatgg	cataccctta	atttttaaaa	antaaaattt	tttttttttt	900
tgggangggg	aaggctggat	ttcctttcnc	ttaacctnga	gggtatatcc	cctgnttggg	960
acccaatttt	aagngnacct	ggcccgggcn	ggccgttcaa	aagggcgaat	ttccgncct	1020
gggc						1024

<210> 85

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 85

gngnnnnnnt	taacnccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gccctttcga	gcggccgccc	gggcaggtag	gcggggagag	agaagcgagg	120
ttctcgttct	gagggacagg	cttgagatcg	gctgaagaga	gcggggccag	gctctgtgag	180
gaggcaagac	acagtgggtc	gcaggatctg	acaagagtcc	aggttctcag	gggacagggg	240
gagcaagagg	tcaagagctg	tgggacacca	cagagcagca	ctgaaggaga	agacctgect	300

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gtgggtcccc atcgcccaag tctgcccac actcccacct gctaccctga tcagagtcac 360
catgcctcga gctccaaagc gtcagcgctg catgcctgaa gaagatcttc aatcccaaag 420
tgagacacag ggcctcgagg gtgcacaggc tcccctggct gtggaggagg atgcttcac 480
atccacttcc accagctcct cttttccatc ctcttttccc tctcctcttt tctcctctcc 540
tctcctgct atcctctaata accaagcacc ccagaggagg tttctgctga tgatgagaca 600
ccaaatcctc cccagagtgc tcagatagcc tgctcctccc ctcggtcgtt gcttcccttc 660
cattagatca atctgatgag ggctccagca gccaaaagga agagaagtcc cagcacccta 720
caggtcctgc cagacagtga gtctttaccc agaagtgaga tgatgaaaag gngactggat 780
tnggtgcagt ttctgntntt taagtntcaa atgaanggaa ccgactncaa anggccgaaa 840
tncctggaaa agtgnctna aaaaattatg aagaacnntt tcccttgng gtttaangaaa 900
ccctccaan gcnnngcnnn nggnctttgg gcnttgangn nnaanggnaa gggatcccn 960
ttgggcnnt tcntttggcc ttggnnncc nctngggcc ctancttng aaggggaanc 1020
cnnn 1024

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<210> 86

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 86

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gnagnnnnnn ttngtcttcn gaattgggcc ctctagatgc atgctcgagc ggccgccagt 60
gtgatggata tctgcagaat tcgcccttag cgtggctcgc gccgaggtac tccaggtagt 120
tttctgcac ccaatcttgg gtgagcagct tcttgggctc cccataaatg aggtgctcca 180
tcccatcata cagcccatc atattcagt ctccccagat gacctcctca ggggtgcagt 240
agccctctat gaagattatg cttaggataa gtatgagaat gccagtcttg ggcattgctc 300
ggacatcact cagcatccca tcataggtga ggcccaggga ggtgacaagg acaaaggagt 360
ggcagtgagg atccacttcc tttacatcaa tgccaaagac cagcagcatg cactcggagg 420
cttactaaaa caacaaagg aagtggctct cataattttt tatgacactc tccagtattt 480
ctgcctttgt gatcggctcc ttcatttgat acttgaagag cagaaactgc accaaatcag 540
tcaccttttc atctatctca cttctgggta aagactcact gtctggcagg acctgtaggg 600
tgcttgagct ctcctccttt tggctgctgg agccctcatc agattgatct aatggaagg 660
aagcaacgac cgagggggag gagcaggcta tctgagcact ctgggggagg aattgggtgc 720
tcatcatcag cagaaacctt ctctgggggt cttggtatta gangatacag gaggaggagg 780
angaagaaga ngaagaagga aaagaggatg gaaaagaagg actgggtgga aatggatgat 840
gaagcatnct tcttcacagc ccaggggaac ctgtgcaccc ttnaagggcc tggggcttac 900
ttttgggaat tgaagaactt nttaggcnt gccannntt tacccttttg ganccttnag 960
ggcctnaagn acctttganc angggnnnnc nnnnnnngga attgggcncg gaaatttggg 1020
ccna 1024

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<210> 87

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 87

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gggnnnnnnt taactcatc gccagcttgg taccgagctc ggatccctag taacggccgc 60
cagtggtgct gaattcgccc ttagcgtggc cgcggccgag gtacattgag accagcaata 120
gttccagcat ctttggtagc ctgacgctga gagtcattaa agtaagctgg cactgtgacc 180
acagcattgg taacagctct cccaaggtag gcttctgcaa tttccttcat ctttgtcaga 240
accatagaag acacctcctc tggatagaag cttttggtct ctccttggta tctacttg 300
accttggggc tgccagcatc attcaccacc ataaagggcc aatgtttcat atcagactgg 360
acaacagcat catcaaatct gcgtccaatc agacgtttgg catcaaaaac tgtgtcggtg 420

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gggttcattg caacttgatt ctttgcgga tcaccgatca accgttcagt gtccgtaaag 480
gcgacatagc ttggagtggg tcgggtttccc tgatcattgg caattatctc gacttttccc 540
tgctggaaaa caccacacac agagtaggtg gtgccaagat caataccaac tgcaggtccc 600
ttggacatgg ttgctgggat gtaggcctgg ctccaataac gaaggaaagg acaaaaaccc 660
aagagctgca ggcgaaagtcc aatgagaccc ccgcgggacc tgcccgggcg gccgctcgaa 720
agggcgaatt ctgcagatat ccatcacact ggcgccgnt cgagcatgca tctaganggc 780
ccaattcgcc ctataagnga gtcgnattac aatcacttgg ccgcgtttta caacgtcgtg 840
acttgggaaa accctggggt acccaactta atcgncttgn agcacaatcc ccnttttncc 900
anttggcgga antnaccnaa aaggcccgna ccgaacggcc ntttccaaaa gttgcncaan 960
cctgaaangg caaaaggacc ccccccttta acggggccat taaaccccn ncngggnnnn 1020
nngg 1024
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<210> 88

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 88

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tctgcagaat tcgcccctcg agcgccgccc cgggcagggt ctcattggac 120
tcgctgcag ctcttgggtt tttgtggctt ccttcgttat tggagccagg cctacatccc 180
agcaaccatg tccaaggagc ctgcagttgg tattgatctt ggcaccacct actcttgtgt 240
gggtgttttc cagcacggaa aagtcgagat aattgccaat gatcagggaa accgaaccac 300
tccaagctat gtcgcttta cggacactga acggttgatc ggtgatgccc caaagaatca 360
agttgcaatg aaccccaccg acacagtttt tgatgccaaa cgtctgattg gacgcagatt 420
tgatgatgct gttgtccagt ctgatatgaa acattggccc tttatggtgg tgaatgatgc 480
tggcaggccc aaggtccaag tagaatacaa gggagagacc aaaagcttct atccagagga 540
ggtgtcttct atggttctga caaagatgaa ggaattgca gaagcctacc ttgggaaagac 600
tgttaccaat gctgtggtca cagtgccagc ttactttaat gactcttcag cgtcaggcta 660
ccaaagatgc tggaactatt gctggtctca atgtacctc gcccngacc acgctaaggg 720
cgaattncag cacactggcc ggccgntact taatggatcc gaactcggta ccaagccttg 780
cgtaatcatg gnccatactg gtttctgngg tgnattgggt attccgggtca caattncnca 840
caacattcca anccggaagc cttnagtgtg aagccctggg tgcccttaag agtgagctta 900
ctnncantta aatgcgttgc gcttnnttgg ccgttttcca tcgggnaaan ctgcngccaa 960
ctggatttaa ggaattggnc aannccccgg ggaaaaaagn gtttggtatg gcgcttttnc 1020
gttt 1024
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<210> 89

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 89

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gggnnnnnnt taaactccag cttggtaccg agctcggatc cctagtaacg gccgccagt 60
tgctggaatt cgcccttgag cggccgcccg ggcaggtaca gttcagtaat gttaagtgtg 120
ttcacagtgc tgtgcaaac atttctatct tgcaaaaccg aagttctata tccactaac 180
aactccgcat tttccctctc ccagcccct gccaaactgcc attctacttt ctgtttctct 240
atatttgact acactagaca cctcatataa gttaaatcag agagtatttg tttttttgtg 300
actggtttct ttaaaacttag cataacatcc tcaagatcca tcaatagtct atcatgtatc 360
atgtattact tcttttttaa ggttgaacaa tattccactg tgtgtgtgtg tgtgcacgtg 420
tataccacgt tttgttttagc cattcgtcca tcaatggaac ttgggttgct tcgacccttt 480
ggctactgta ttacgttggt ctacgttgc tataaagacc tgaggttggg taatttataa 540
```

```

agaaaagaag ttctgcaggc tatacaagca tgggtgctggc atctgcctgg cttctgggga 600
ggcctcaggg accttttact catggtggaa ggtgaggcag gagcaggcat gccacatggt 660
gaaagcagga gcaagaaaaga gtgggggaggg tgccatcact taaaaaacca gatcccatga 720
gtattcatta ttgcaagaac agcatcaaac catgaggctt cancccgctg cccaaacacc 780
ttccaacang cccaactcg cattaaggat acctttcnaa nntaagggtt gggggggacc 840
aaatntccca actatatcan tgnntttgaa cagggntccc agttctttta aatcccgaaa 900
aaatttttaa aggantccca acccttttaa ngaactaaag gtttcccgna nnnngaaaag 960
tttttncccc ngggggnaaa attnaatggn tttncccnaa aaantaantt ttnaaagaaa 1020
nttt 1024

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<210> 90
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

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<400> 90
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tgatggatat ctgcagaatt cgcccttagc gtgggtcgcg ccgcggtaca tctcctaaag 120
actaatggtc atttacaaat tcaaacatga gataaagtat ttggtgatat gtccatcaag 180
tataactcag aaatcagtaa acaagtcttt tcccaaagta agttccttct aaatgtagct 240
aaaaagagcc actttgtcat taaagtgaat gagtatgcat ttttagaaca gacttgatgt 300
ttggattgtg ttaaacatat gtctgttagt gaaagtgtta gtcacaaaga taaaatttca 360
tctaaaaata atatatagag aaaaatgcaa taaatataca catggtaaaa tacttctctt 420
ttctgtaaac ttttagttct ttataagggt tgtgatatca tttaaaaatt tttctgtatt 480
gaaagaaact ggagacactg ttcatagcag ctgatatagt ttggatattt gtccccaccc 540
aaaccttata ttgaaatgta atccttaatg cggagggtgg gcctggtggg aggtgttttg 600
gccacggggg tggagcctca tggtttgatg ctgttcttgc aataatgaat actcatggga 660
tctggttttt aaagtggatg gcacccttcc cactctctc ttgctcctgc tttcaccatg 720
tggcatgcct gctcctgcct caccttcacc atgagtnaaa ggnccctgang cctcccagaa 780
gccangcaga tgccancanc attgcttggg tagcctgcan aacttctttt ctttataaaa 840
taccccaacc tnaggcntta tgccatgctt gaacaaccgt aatnctanc ccaanggtcn 900
aaccaaccca ggtccattgg nngggcnaag gnttaacnaa acngggnnnt cctgcncna 960
nnnnccccc nngggnaaat gcaacccttn aaaanaagnn tncctgganc cngnnnnncc 1020
nttt 1024

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<210> 91
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

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<400> 91
gggnnnnnnt aattancgcc ngcttggtag cgagctcgga tccctagtaa cggccgccag 60
tgtgctggaa ttcgccctta gcgtgggtcg gcccgaggta ccttggaagt tatgtcatta 120
atataggctg gttcatcaaa taaagcaaaa ccttgcaata tcagctagat ttacactccg 180
ggacgttgcc caaaggtagg aagaaagcag agggaaatat ttcagtcac atttccaaag 240
tcattatcaa aatctgtgag gaagtttaat cttccaaaga gtcaatgtca gacatcaggc 300
ctctgttgcc tgcttctctc gaggcactag attaggagtc ttcaataaga gacttaacat 360
gaggtatatg gaagatgagg caccgagata agttcatcat taggtgtgag cactgtcac 420
ccttgctggc aagttctcct taagggcctg aagcacaggt gtccaaagaa aagcgttaag 480
tccattctaa tagaatctat gtggtatatg atgtgggtcag cccctggtct gtgatcagca 540
agaacctaca gcacagatta tgccctgccc acttcaatga atacctactc tctccattc 600
tccatcactt tttttgctat caagaactcc ggaccttgcc catgggagaa gtttagagag 660

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gaactcttgt	ggagaactgg	tttattttct	gccctgtgcc	gacgagtttc	agctggccaa	720
gaaaggagtc	aagttattaa	aaagcatcac	aatggagatc	ttccaggctg	ggttttttgg	780
tttttggtgg	taaaactggg	ggaaangggg	actatttatt	ctggccttaa	atcaatnggc	840
aaattaagtc	aagaagaccn	ttttgggaat	gtngactatg	gatnccctcc	taatngaagt	900
gagnagcctt	aaaaaggggg	caangtaang	gttttcnggt	atggaagcca	aaanttttnc	960
cggtcnaatg	ggntggntnn	ccaatattnn	taccggcccn	aaangggntt	tttncnnngg	1020
gtcc						1024

<210> 92
 <211> 1024
 <212> DNA
 <213> Homo Sapien

 <220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 92						
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tgcattccata	atztatcgcc	atgtgcaaca	gctttgcgtt	ttctaaggca	caatttttaa	120
tgaatgatg	tgtagatttc	aatctaataa	cagctcatcc	aatgacaaa	tatggtcgaa	180
atccctccag	tggctgagga	aatttctgca	cctatatgga	acccacatgc	aaagaaccca	240
tctagcatgt	aataaataat	cgctagccat	actcaataag	acacggaaaa	attattgctt	300
acataacaga	aaaacatcta	cttgaccccc	ttttatgact	acatcaatct	attaggagtg	360
tatccatagt	ctacattcac	aaaatgtcat	cttgacttat	ttgccattga	tttaaggcag	420
aataaatagt	ccccctttcc	ccagtcttaa	caacaaaaaa	caaaaaacca	gcctggagat	480
ctacattgtg	atgcttttta	ataacttgac	tcctttcttg	gccagctgaa	actcgtcgca	540
cagggcagaa	aataaaccag	ctctccacaa	gagttcctct	ctaaacttct	ccatgggcaa	600
ggtccggagt	tcttgatagc	aaaaaaagtg	atggggagaat	ggaggagaag	taggtattca	660
ttgaagtggg	cagggcataa	tctgtgctgn	aggttcttgc	tgatcacaga	ccaagggctg	720
accacatcat	ataccacata	gattctatta	agaatggact	taacgctttt	ctttggacac	780
ctgtgcttta	ngccctttaa	ggagaacttg	ncanccangg	gtgagcagtg	cttcacacct	840
taaggatgaa	ccttaatctc	ggggcctcat	cttccatata	nccctaaggg	taagnctctt	900
taatggaaga	ctcctnaatt	agnngccttg	aaaagaagca	ggcaccgcaa	gggcctgagg	960
ctgacattgg	ctcttttnga	agaataaact	ttccttaccg	naatttgga	aaggaccttt	1020
ggaa						1024

<210> 93
 <211> 1024
 <212> DNA
 <213> Homo Sapien

 <220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 93						
gngnnnnnt	taactccagc	ttggtaccga	gctcggtacc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggctcgggc	cgaggtaactt	tttcaaagt	cactgaaaga	120
attgtttttg	taacagtatg	caaaatgata	ctgtattggt	agaacaaaaa	tctgtggagt	180
gttaataactt	tgtaagccaa	attaaagttt	ctaagcagta	taaaatgaga	atgacatcat	240
cctttcctag	tatttccaag	tcttagagta	ctctacaccc	tgttggtctat	ttatctgggg	300
ttagacttct	ggagactttt	cagatagact	tgaagtctct	ggccttgccct	gggaattact	360
ggctgcccga	ggaagcactg	gagaaggcgg	tggctctcct	gcccttgtgg	tcctgctgtg	420
gcgcattttg	attgagttcc	tggctcggtt	ggtcagagtg	gctggatagt	gttgccccac	480
tccattcctc	aggttttttt	gaagcgggtg	tcttttaggg	agagcctttt	gttcctggaa	540
cttccttgac	gggtcccttt	tccttctctg	gttgctcttg	gaacctcttt	gggtgtgatg	600
ggttgtgtgt	ggaaaatggg	ctggaggctc	gtggtttctt	ggacatcttc	accagaccag	660
tgtctctcaa	cagtctactc	cagtcacact	ggctcncctg	agcttcccc	ggacagtga	720
ngcaggccac	aggctanaaa	ctgtagtenc	ccgacattac	aagccaattt	gggnctgtgg	780

gctctgnttt	ccaaatcaac	cctttcanct	tcatttgga	nccattcag	gaaanccccg	840
cgtaccttgc	ccgggcgggc	cgttcnaaag	ggcgaattct	gcanaaatcc	cttanacttg	900
ggngnccgt	ttnaacctgc	cttttaaagg	gcccaattnn	nccctntnna	nnggagcgan	960
taccaattnn	ntnggnccgc	gttttnaaaa	cgnnnnnann	tnggnaaaa	ccctggggtn	1020
cccc						1024

<210> 94
 <211> 1024
 <212> DNA
 <213> Homo Sapien

 <220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 94						
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gaattcgccc	ttcgagcggc	cgcccgggca	ggtacgcggg	gcttcctgga	tggggatcca	120
gatggagggtg	gaggggttgat	ttgggaagca	gagcacagca	gcacaaattt	gcttgtaatg	180
tcggcgacta	cagtttctag	cctgctggcc	tgcttctact	gtcctggggg	aagctcgggg	240
agaccagggtg	gacttgagta	gactgttgag	agacactggg	ctgggtgaaga	tgtccaggaa	300
accacgagcc	tccagcccat	tttccaacaa	ccacccatca	acaccaaaga	ggttcccaag	360
acaacccaga	agggaaaagg	gacccgtcaa	ggaagtcca	ggaacaaaag	gctctcccta	420
aaagaccacc	gcttcaaaaa	aacctgagga	atggagtggg	ccaacactat	ccagccactc	480
tgaccagccg	aaccagggaac	tcaatcaaaa	tgcgccacag	caggaccaca	agggcaagga	540
gaccaccgcc	ttctccagtg	cttctctggg	cagccagtaa	ttcccaggca	aggccagaga	600
cttaagtcta	tctgaaaagt	cttccagaag	tctaacccca	gataaatagc	cnaacagggg	660
ggagagtact	tctaagactt	ggaaatctta	ggaaagggat	gatgtcantc	tcattttata	720
ctgnttaaaa	actttaantt	ggcttacaa	tattaaccct	tcacagaant	ttgtctacca	780
tncagnatca	atttggcatc	tggtccaaaa	ccattttttt	agggcanttt	gaaaagtcc	840
tnggccggga	acaccttaag	ggcgantcca	gncacttggg	nngnccgtan	nnnaaggtcc	900
caactcgann	caaannttgn	gnaaacatgg	gnnnanattg	gntcctgggg	ggaaatgtat	960
ccgnttaca	nttccncaa	nnnncnaanc	cggannnnt	taagggtaaa	nnccctgggg	1020
gccc						1024

<210> 95
 <211> 1024
 <212> DNA
 <213> Homo Sapien

 <220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 95						
gggnnnnnnt	taactccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gccctttcga	gcggccgccc	gggcagggtac	tttttttttt	tttttttttc	120
cgtctcccca	aagctttatc	tgtcttgact	ttttaaaaaa	gtttgggggc	agattctgaa	180
ttggctaaaa	gacatgcatt	tttaaaacta	gcaactctta	tttctttcct	ttaaaaatac	240
atagcattaa	atcccaaate	ctattttaaag	acctgacagc	ttgagaagggt	cactactgca	300
tttataggac	cttctgggtg	ttctgctgtt	acgtttgaag	tctgacaatc	cttgagaatc	360
tttgcatgca	gaggaggtaa	gagggtattg	attttcacag	aggaagaaca	cagcgagaa	420
tgaagggcca	ggcttactga	gctgtccagt	ggagggctca	tgggtgggac	atggaaaaga	480
aggcagccta	ggccctgggg	agcccagtc	actgagcaag	caagggactg	agtgagcctt	540
ttgcaggaaa	aggctaagaa	aaaggaaaac	cattctaaaa	aacaacaaga	aactgtccaa	600
atgctttggg	aactgtgttt	attgcctata	atgggtcccc	aaaatgggta	acctagactt	660
cagagagaat	gagcagagag	caaaggagaa	atctggctgc	cttccatttt	cattctgnta	720
tctcagggtga	actggtanan	gggagacatt	ngaaaaaat	gaaacnacca	aaaccattac	780
taatgaggta	ccttnggncc	gggaacacgc	ttaaggcgaa	ttttgcagaa	atncattaca	840
ctggcggncc	gttcagcatg	cttttaaagg	gccaattnc	cctttaaggg	agtcgnatta	900

caatttnant gggccgcgtt ttacaacgtn nggaactggn aaaacccctg gggtnnccca 960
cttnaannnc cttggnnnan aatccccctt tncnaantg gggnnnnnnn ccaaaggccc 1020
cnaa 1024

<210> 96
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 96
gngnnnnnnn tnggttnega ntgggccctc tagatgcatg ctcgagcggc cgccagtgtg 60
atggatatct gcagaattcg cccttagcgt ggtcgcgccc gaggtacctc attagtaatt 120
gttttgttgt ttcatttttt tctaattgtc cccctctacc agctcacctg agataacaga 180
atgaaaatgg aaggacagcc agatttctcc tttgctctct gctcattctc tctgaagtct 240
aggttaccga ttttggggac ccattatagg caataaacac agttcccaaa gcatttggac 300
agtttcttgt tgttttttag aatgggtttc ctttttctta gccttttctt gcaaaaggct 360
cactcagtcc cttgcttgct cagtggactg ggctccccag ggcctaggct gccttctttt 420
ccatgtccca cccatgagcc ctccactgga cagctcagta agcctggccc ttcattctgc 480
gctgtgttct tctctgtga aaatccaata cctcttacct cctctgcatg caaagattct 540
caaggattgt cagacttcaa acgtaacagc agaaccacca gaaggtccta taaatgcagt 600
agtgccttc tcaagctgtc aggtctttta ataggatttg ggatttaatt ctatgtattt 660
ttaaaggaaa gaaataagaa ttgctagttt taaaaatgca tgtcttttaa ccaattcaga 720
atctgcccc aaactttttt naaaagtcaa ggaccgataa agctttgggg agacngaaaa 780
aaaaaannnn aaaaagtacc tggccgggcn ggccgttcna aaggggcgaaa ttcaacacac 840
tgggcggccc gtacttaatt gatcccaact cggncccaac cttggggaaa ncatgggccc 900
taactgggtt cccggggggg aaatgggtatt ccggttacia attccccccc annttccana 960
cccggaaaanc cnttaagggt aaaanccctg gngggccena anggggggct nacctccctt 1020
tnaa 1024

<210> 97
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 97
gngnnnnnnn nttnnnttat acgccangct tggtaaccgag ctcggatccc tagtaacggc 60
cgccagtgtg ctggaattcg cccttagcgt ggtcgcgccc gaggtacatc tgattttata 120
tgttgtccaa actggtcaat ccagttgctt aacacagaaa gcggacagat gatcagtgtt 180
gttcttggtc tctcctcaac atcagtttct tttgacccct ccaactgcaca agtccccctt 240
ttcaacattt tcttttttgt tgtaggaaca gatgaagta atgcacatgc aaatgccaca 300
tcttctataa ccttagaaga tcttttcgcc ctgccttttag tttcagactg tacagagggg 360
gagagagaga gaaagagagc acgccagtga gaaagcgagc gcgagcgcca gcgcaagggg 420
aggagagggt gggagagggc ggaaggggga aagctgtccg tgggagattg tgtcttcatt 480
tccacggggc tgcattctct gatggtgcac tgaaaaagca gagctcacca gacagagtgg 540
aaaggcaggg ggaggggcag ggagcaacag aaggaagaga caacaagccc aagacagctt 600
ccatctcaga cggaaggccc ccagaagata gaattccagc cgactgaaaa accacccaat 660
gaacaaagaa gattctagaa aatagaagtg ttgggattac aaagttgngc gtttcatcgg 720
tacctgccc ggcggnccnt caangggcga attctgcaga tatccatcac actggcggn 780
gntcgagcat gcatntagan ggcccaantc gncctataag ggagtcgnan tacaattcac 840
ttgggcggcg ttttacaacg tctgacttgg naaaanccct gnggttnccc aacnttaaac 900
ggcnttggag nacaattccc ctttttncca anntggggna antnaccaaa agggcccccnn 960
accgatggnc ctttttcaaa aagttggggc aaccttgaaa gggcaaaagg gccccccctt 1020

ttaa

1024

<210> 98
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 98
gnngnnnnnnn ttngaattgg gccctctaga tgcattgctg agcggccgcc agtgtgatgg 60
atatctgcag aattcgccct tgagcggccg cccgggcagg taccgatgaa acgcgcaact 120
ttgtaatccc aacactttct attttctaga atcttctttg ttcatgggtt gggttttcag 180
tcggctggaa ttctatcttc tgggggcctt ccgtctgaga tggagctgt cttgggcttg 240
ttgtctcttc ctctgttgc tccctgcccc tccccctgcc ttccactct gtctgggtgag 300
ctctgctttt tcagtgcacc atcaagagat gcagccccgt ggacatgaag acacaatctc 360
ccacggacag ctttccccct tccgcccctc cccaccctct cctccccctg cgctcgcgct 420
cgcgctcgct ttctactgg cgtgctctct ttctctctct ctctccctct gtacagtctg 480
aaactaaagg cagggcgaaa ggatcttcta aggttataga agatgtggca tttgcatgtg 540
cattaacttc atctgttctt acaacaaaaa agaaaatgtt gaaaaaggga gcttgtgcag 600
tggagggttc aaagaaaaact gatgttgagg agagaccaag aacaacactg atcatctgtc 660
cgctttctgt gttaagcaac tggattgaca gtttgacaa catataaaaa tcagatgtac 720
ctcggnccgc accacgctta gggcgaattn cagcacactg ggcggccgtt acttaatgga 780
tccgaactcg naccaagcct tgcgtaaaaa tgggcaatac tggnttctct nggggaaatg 840
gtaatccggt tacaaattcc ccacaacntt acaanccgga agcccttaag ngtaaaaccc 900
ctgggngccc caaagagtga gctaacttnc catttaaatg cgttngctca atggcccgtt 960
ttccatcggg naaacctgn ngccantgga ttaangaatc ggncaaancc cccggggnaa 1020
aaan 1024

<210> 99
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 99
aacgccagct tggtaaccgag ctccgatccc tagtaacggc cgccagtgtg ctggaattcg 60
cccttttcgag cggccgcccc ggacaggtaca gataaatccg tgcattgcat gagggagact 120
agagggtaaa atgaaatctg ccccatcctt cttacatata cagtgatagc attttgaatt 180
gttctttctac atttgaaatc tttagctgaaa gatcatcagc caccgacctt ttgtgaagct 240
agttctctag aacatacaat gttttttaaa aaattaaaaa cacagaagga aaaaagcaag 300
aaccaacgat aaatggagct tgtgcagaat ctggcagtg cgtggacctg cccatctgtt 360
ctcccccgcg tactgactga acacactccc cgctttgggt cctgtaggac ggggtgagata 420
ccacaccttg gcaaccacca gtaaaggctc atagtctagc ccttgggagg ccccgatttt 480
agggtctgtg tcggaggcga cctacgttag ggactgggag aagcgggtac ctccggccgcg 540
accacgctaa gggcgaattc tgcagatata catcacactg gcggccgctc gagcatgcat 600
ctagagggtc caattcgccc tatagttagt cgtattacaa ttcaacttgc cgtcggtttt 660
acaacgtcgt gactgggaaa accctgccgt taccacaactt aatcgccctg cagcacatcc 720
cccttttcgcc agctgcgtaa taacgaaaaa cccgnaccga tcgcccttct cacagtgtgcg 780
caacctgaat ggnaaatgga ccccccttg taccggcgca ttaaccnccn gccggntnnt 840
ggggtaacccc cagctggacc ggttcaactg gccagggcc taangnccgg ttentttggt 900
ttcttncctt ccntttttng cccgttngcc nggtttttcc cgtaagcttt taaanngggg 960
gcttccccct ttanggggtc aaataangct ttacgggncc ttaaccccc aaaaaattt 1020
nnnt 1024

<210> 100
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 100
gggnnnnnnnn ttngttcng aattgggccc tctagatgca tgctcgagcg gccgccagtg 60
tgatggatat ctgcagaatt cgcccttagc gtgggtcgcg cggaggtacc cgcttctccc 120
agtccctaac gtaggtcgcc tccgagcaca gccctaaaat cggggcctcc caagggctag 180
actatgagcc ttactggtg gttgccaagg tgtggtatct caccgcctcc acaggaacca 240
aagcggggag tgtgttcagt cagtacgcgg gggagaacag atgggcaggt ccacagcact 300
gccagattct gcacaagctc catttatcgt tggttcttgc ttttttctt ctgtgttttt 360
aattttttaa aaaacattgt atgttctaga gaactagctt caaaaaagg cggtggctga 420
tgatctttca gctaagattt caaatgtaga agaacaattc aaaatgctat cactgtgtat 480
gtaagaagga tggggcagat ttcatTTTTT cctctagtct cctcaatgc atgcacggat 540
ttatctgtac ctgcccgggc ggccgctcga aagggcgaat tccagcacac tggcggccgt 600
tactagtggg tccgagctcg gtaccaagct tggcgtaatc atgggtcatag ctgnttctctg 660
tgtgaaattg ntatccgctc acaattccac acaacatacg agcccggaag ccataaagtg 720
tnaaagccct ggggtgcctn atgagtgagc taactcacat ttaattgcgt tgcgctcact 780
ggccccnntt cagtcgggaa aactgcntgc cactgcttaa tgaatcgcc acgccccggg 840
gaaaaagcgn ttgcgtantg ggcgctnttc cgcttctctg gttaactgac tcnttgggct 900
ttggccttng gnttnngggn aacgggttna acttncnttn aaangggggn naatccggtn 960
tnccccgaaa nncggggata acccccggaa anaactttgn ccnaaaggcc ccnaaangg 1020
cccn 1024

<210> 101
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 101
gggnnnnnnt tgaatnacac gccagcttgg taccgagctc ggatccctag taacggccgc 60
cagtgtgctg gaattcgccc ttagcgtggt cgcggccgag gtacgcgggt attttcttaa 120
atttcttgaa tgttctttat ggtagtgtta ctaaaaagtt tatgatcaca ttttctattg 180
gaacataatt tgaactcatt atcacacact tggaaaatac agaaaagtgg aggaaaaaaa 240
atcatatccc caccatccaa agacatatac tctcctctta tcttgttcat tcttgtttct 300
gtgcacaggt ttatgattat aactgtgtca aaatgtatat tcaaaatagc tgttacatta 360
cctttgtgga attatggtta aatactttca cttaattttt ttcaaatgtt ccctataata 420
atgttctgat aacagtgtat tatgtgtgtc tccattgggtg tgcataatac ataccagag 480
gaaaaattag aaaataaagt aaattatttt aaaaaattac ctatattccc aacacctaac 540
aactactgct aacatcttga tctgtttcct ctatcttgtt tcagtgcaca cgcttgtgat 600
aacagtgtta aatatgtgtg cataaagtct taaatgaaaa gatgtggaaa ataactaaaa 660
tagtgttgtc attgtgggaa tttggttaaa tattttgtct caaattcctt aaataatctt 720
tgggtgtttg gtaataaatt ttaatgatgt attttccatt acaaatataa tacatactca 780
tacaaaactt tggaaaatta gtaaagaaaa ttcacacata ttcccacacc caacaccaat 840
ttaactggtn accatctgga ctgngcncta agctgggatt antttaggng tagtggataa 900
gtatgcctaa aggcacaaaa tgggaagaag gatgaaaanc cngaaaatan ttncctgggt 960
gtnnggggaa taaggggaaat ttgggttcgg ttcccttgaa agggcatnnn ttccaagggg 1020
tttg 1024

<210> 102
<211> 1020

<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1020)
<223> n = A,T,C or G

<400> 102
ggagnnnnntt aaacgccagc ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt 60
gctggaattc gccctttcga gcggccgccc gggcaggtag tctttctctc ccctcctctg 120
aatttaattc tttcaacttg caatttgcaa ggattacaca tttcactgtg atgtatatgt 180
tggtgcaaaa aaaaaagtgt ctttgtttta aattacttgg tttgtgaatc catcttgctt 240
tttccccatt ggaactagtc attaacccat ctctgaactg gtagaaaaac atctgaagag 300
ctagtctatc agcatctgac aggtgaattg gatggttctc agaaccattt caccagaca 360
gcctgtttct atcctgttta ataaattagt ttgggttctc tacatgcata acaaaccctg 420
ctccaatctg tcacataaaa gtctgtgact tgaagtttag tcagcaccct caccaaactt 480
tatttttcta tgtgtttttt gcaacatag agtgttttga aaataaagta cctcggccgc 540
gaccacgcta agggcgaatt ctgcagatat ccatacact gcgggcccgt cgagcatgca 600
tctagagggc ccaattcgcc ctatagtgag tcgtattaca attcactgcc cgtcgtttta 660
caacgctcgt actgggaaaa ccctgcgtta cccaacttaa tcgccttgca gcacatcccc 720
ctttcgccag ctggcgtaat aacgaaaagc cccggaccga tcgccctttc caacagggtg 780
gcaacctgaa tggcgaaatg gacccccctt ggaaccggcg cantaaacc cgcncggggn 840
nntnggggtac cccccacggg ganccgttca cttggccann gcctaangn cccgttcctt 900
tnggtttctt tcttctcttt ttgcccgttt gnccggttt tcccggnaag ctttaaaaaa 960
gggggcctcc ccctttangg gtcnaataa nggcttttac gggnccttng aaccccaaan 1020

<210> 103
<211> 1021
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1021)
<223> n = A,T,C or G

<400> 103
ggagnnnttn ngnnngggccc tctagatgca tgctcgagcg gccgccagtg tgatggatat 60
ctgcagaatt cgcccttagc gtggtcgagg ccgaggtact ttattttcaa aacactcata 120
tggtgcaaaa aacacataga aaaataaagt ttggtggggg tgctgactaa acttcaagtc 180
acagactttt atgtgacaga ttggagcagg gtttggtatg catgtagaga acccaacta 240
atattataaa caggatagaa acaggctgtc tgggtgaaat ggttctgaga accatccaat 300
tcacctgtca gatgctgata gactagctct tcagatgttt ttctaccagt tcagagatgg 360
gttaatgact agttccaatg gggaaaaagc aagatggatt cacaaccaa gtaattttta 420
acaaagacac tttttttttt gcaacacaat atacatcaca gtgaaatgtg taatccttgc 480
aaattgcaag ttgaaagaat taaattcaga ggaggggaga gaaagagtag ctgcccgggc 540
ggccgctoga aaggcggaat tccagcacac tggcgggcgt tactagtggg tccgagctcg 600
gtaccaagct tggcgtaatc atggtcatag ctgnttctct tgtgaaattg gtatccgctc 660
acaattccac acaacatag agcccgaag cataaagtgt aaagccctgg ggtgcctaatt 720
gagttagcta actcacatta aatgcgttgc gctcactggc cgctttncag tccgggaaac 780
ctgtcgtgcc agctgcatta atgaatccgg ncaacgcccc ggggaaaaag cggttgctga 840
ttggcgctc ttncgctttc ttggttactg gctccttng cctcggccgt tccgnttcg 900
gnnaaccggt atcagcttac ttcaaangc gnaaatccgg tttncconga aatccggggg 960
ttaacnccag gaaaanaacc tttgaaccna aaggggcccn aaaagggcc ggaaccctaa 1020
a 1021

<210> 104
<211> 1017
<212> DNA
<213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1017)
 <223> n = A,T,C or G

<400> 104
 ggagnnnntta atcnacgcecn gcttggtacc gagctcggat ccctagtaac ggccgcccagt 60
 gtgctggaat tcgccccttag cgtgggtcgcg gccgaggtac tcagctgtct taataggatg 120
 aagcccttaag cagtggaaat ttcagttatt ttccacagta ttccattttg gaggattttg 180
 ggtgtttact ttttaaattc ttgaacaact taacctccat gaggctttgt gaagtcagct 240
 gtgaccacccc tcctcttact gtgttctcag tattcattca cttccaggga agaatagacag 300
 ccacagggag atggtggtgg gcaagaatga gagtcccagg atccagattt agcctcagat 360
 cttccccatt caggaaggggt tttccattta acaagagcac tagtatgaaa acattagggga 420
 caaatctccc atgtctttga aattcggatt ctccctcttga gatccccttc ctcacctgcc 480
 aatcaacttt ataaggccac aagtggtcac ttgttttctc tccacagggt tgaggttctc 540
 agcttttctt aagcgaccca gcagctccgc tgttttcaga gtgaatatgt taagctttga 600
 tgagattcta ttttcagtaa gtttagtctt ctgggacact tggagaaagc tgtgagagtc 660
 attggctacg caaagaacaa cgaaagctga tcctaaaagt gatccaatct aagaaaatgg 720
 taaaacgagc tctggccaca gcacagaatt ttatgtgang aactcagatt tttgaagact 780
 taacaattgc agaaaaaggn tgcagcctgn acaccatag cccaactttt ntgagccana 840
 ctttggtgtt tggnggggga cntggcacca tgtttgnacc tggccggccg gncctgtcna 900
 aagggccaaa ttntggcnga aatnccttac actggggggc cgtttgagca tgcctntaaa 960
 ngggcccaan tngnccctta aaggggggcn nnttccaatt nctggggccc ggttttn 1017

<210> 105
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 105
 ggagnnnntt nnnntnnngan tgggcccctct agatgcattgc tcgagcggcc gccagtgtga 60
 tggatatctg cagaattcgc cttttcgagc ggccgcccgg caggtaacaa catgtgccac 120
 gtcaccacac aaaaccaaag tctgctcaga gaggtgggct atggtgtgca ggctgcaacc 180
 tttctctgca attgttaagt ctcaaaaaat ctgagttcct cacataaaat tctgtgctgt 240
 ggccagagct cgttttacca ttttcttaga ttggatcact tttaggatca gcttcgttgt 300
 tctttgcgta gacaatgact ctcacagctt tctccaagtg tcccagaagc actaacttac 360
 tgaaaaataga atctcatcaa agcttaacat attcactctg aaaacagcgg agctgctggg 420
 tcgcttaagg aaagctgaga acctcaaacc tgtggaagga aaaccagtga ccacttggtg 480
 ctttataaag ttgattggca ggtgaggaag gggatctcaa gaggagaatc cgaatttcaa 540
 agacatggga gatttgtccc taatgttttc atactagtgc tcttggttaa tggaiaaccc 600
 ttcttgaatg gggaagatct gaggtctaat ctggatcctg ggactctcat tcttggccac 660
 caccatctcc ctgtggctgt cattcttccc ctgaagtga tgaatactga gaacacagta 720
 aggaaggagg gtggtcacaa gctgacttca caaagcccta atgganggtt aagttggtca 780
 agaatttnaa aagtaacccc cccaaatcct ccaaaaatgg gaatactggt ggaaaataac 840
 ctggaaattn ccttggttta aggtcttcat ctattaagac cgcttgagta cccttgggcg 900
 ngaaccccc taagggcgaa ntncacaca ctggnggggc cggtaccta nggatcccaa 960
 ctnggnaccc aancnttggg gaaancatng ggccataact ggttccccg ggggaaatgg 1020
 taat 1024

<210> 106
 <211> 1007
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1007)

<223> n = A,T,C or G

<400> 106

ggagnnnnntt	aaacgccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggtcgcggc	cgaggtagac	agaatagctg	agcagttcac	120
ttcagggatc	aggtcatctc	tgctcctcct	agtttcacca	tggtctggca	ataaaaaaca	180
catattatat	cctgggttttc	tctatccttg	cattactaag	gtgactgtct	ctctttatac	240
atccttgtat	ggttctccca	gtattagcaa	gattgtatat	ctgtaaagaa	tgtccagttt	300
tgtaaatatt	tccctgcctt	tttttttctt	tttttacatc	tgattttaat	gcttcgttaa	360
cttcaaaagg	aactggtaga	gttcagaagg	tgagctgttg	tttttctaaa	cctcttccca	420
ggaaggggac	attgacactt	gaatttttgt	cacttttttc	ctcattagaa	ggaaagtaga	480
aagccttact	gtaggatttt	taaaaaaaa	tccatctcac	cccatatttg	tcttaaataa	540
gtatagacta	attaacctaa	gctaccttta	acaacgtaga	atttaanatg	ggttcatata	600
tgtagaaaaa	acctgaatat	aggacagggg	tcctactttt	ttccccacct	ctgtcgccca	660
ggctagagta	ntaantgggtg	gatcttgccc	cactgcaacc	tctgcttcta	gggtcaagtg	720
attcctctgc	tcagcctncc	aagtancccg	ggaattggaa	gagtatgcca	ccacgccag	780
ctactttttg	gaatttttagt	nnaaaacagg	ttcatcatgn	tggncccnga	agggcnctta	840
antcctgncc	ttnagngatc	cccccnana	ngaaacctg	gncnncccaa	nnnnnngggn	900
tntagcnnnn	ccnccnggcc	cannctactt	tnnnaannnn	nnnnnnnnnn	nnnnnnnnnn	960
nnnnnnnnna	nnngnncnnn	nccngnnngn	ccnnnnnnng	gnaantc		1007

<210> 107

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (1024)

<223> n = A,T,C or G

<400> 107

gnagnnnnnn	nngattgggc	cctctagatg	catgctcgag	cggccgccag	tgtgatggat	60
atctgcagaa	ttcgccctta	gcccgcgccc	gggcaggtag	tttttttttt	tttttttttt	120
tttttttttt	aattaattag	aaagtaggct	gggcacggng	gctcatgcct	ataatcccag	180
cacttgggga	ggccgaggat	ctcctctctg	gnggatcact	tgagggcagg	agttaagaga	240
ccatcctggc	caacatgatg	aaaccctgtc	tctactaaaa	atacaaaaag	tagctgggcg	300
tggtgggcata	ctcttacaat	cccggctact	tgggaggctg	aggcaggana	atcacttgaa	360
cctaggaagc	agaggttgca	gtgggccaa	atcacaccac	tatactctag	cctgggcgac	420
agaggtgggg	aaaaaagtag	gaccocctgtc	ctatattcag	gtttttctca	catatatgaa	480
cccactctaaa	ttctacgttg	ttaaaggtag	cttaggttaa	ttagtctata	cttatttaag	540
accaatatgg	gggtganatg	attttttttt	aaaaatccta	cagtaaggct	ttctactttc	600
cttctaata	ggaaaaagg	gacaaaaatt	caagtgtcaa	tgcccccttc	ttggggaaga	660
ggtttagaaa	aacaacagct	caccttntga	actttttacca	gttccttttt	gagttaaccg	720
aagcnnntaaa	aatcagatgt	aaaaaangaa	aaaaaaaggc	cgggaaattt	ttaccaaaact	780
nggacattct	ttacagatat	acaatcttgc	taaaacctgg	gaaaaccttt	cccngggtgt	840
ttaaagggga	aacagtcctc	cttataatgc	ccgggggttna	gaaaancccg	gatttttnaa	900
aaaggggttt	tattgcccga	aactggggga	accttngggg	ggncccaaaa	nnaacctgan	960
cccctgaagg	naccgggttn	annnnntttt	tgggaccttg	gccgggaacc	ccctttnggg	1020
ggna						1024

<210> 108

<211> 470

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (470)

<223> n = A,T,C or G

<400> 108

actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgcc	60
agtggtgctg	aattcgccct	ttcgagcggc	cgcccgggca	ggtactat	ttttttttt	120
ttttcggtg	tttgacattc	cttgaatctg	ttttttattc	ccctccaca	gaacaggcct	180
gggactttcc	aacacctgc	taaggaaagt	ctgtgtccaa	gtcccaccca	ggctgggttg	240
tccccacctn	ctncagccca	cacagccag	gcagcatccg	ggccagtgc	ctgcatgaca	300
naggggtctt	gttgtgta	gnttggtccc	aagttgcatt	ttctaaccga	atcagtgtgt	360
tttcatgaaa	ctgagtgtta	ctgtggacca	gtaagtttct	ctgtgtgtct	cagtgggtct	420
cctgtgtggc	tcaagggttc	tctgtgagag	tctggatttt	catttctggg		470

<210> 109
<211> 808
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(808)
<223> n = A,T,C or G

gggcctctag	angcatgctc	gacggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
agcgtggctg	cggccgagg	acaagtctgc	ctaagagaca	gaagtgagtn	ttataatcta	120
cttgccatt	cctccagca	gagaagcagc	aggtagatat	ggcatgcact	gtgcctgctg	180
ctgctgctct	tgtggcgaac	actcagatgt	ggaaccatag	agggaccttg	aggagctggg	240
acatgattct	ttagagaaga	gaagagacgg	ggagcacagc	atgagaatgg	ccagtcaacc	300
catttcaa	tcttttatta	aagtgcctcc	cgaggggcct	tgcaaaaaga	tgatggggag	360
agcagaactg	ctgctccttg	acagaactct	gatccttaca	ctttgtttgg	agtgggcttg	420
gggacagtca	caagccatga	aacatgaatc	caaaatggtc	cccagatgag	ccatggtgaa	480
ccaacagatg	caagcaactt	cttaaaactgc	tctattaaac	actgctttat	atgtgtcccc	540
atgatacaga	aaagtgggat	ggggccagcc	attccagaaa	tgaaaatcca	gactctcaca	600
gagaaccctt	gagccacaca	ggaagaccac	tgaagacaac	agaggaaacta	ctgggtccaca	660
gaaacactca	gtttcatgaa	aacacactga	ttcgggtaga	aaatgcaact	tgggaacaaa	720
cattacacaa	caaagaccct	ctgtcatgca	gggcactggc	ccggatgctg	ctgggctgtg	780
tgggctggaa	gagtgggga	caaccac				808

<210> 110
<211> 471
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(471)
<223> n = A,T,C or G

actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgcc	60
cagtgtgctg	gaattcgccc	tttcgagcgg	cgcccgggca	aggtacagcg	acgtgatgat	120
gtagaggcgc	ttcccatcca	ggctgagctg	gatcatctga	gggcctncag	ccaccggtt	180
tcccttgacc	actaggggct	ctggctggga	ctttagttcc	tcgtcctcca	gcacttgca	240
agggcctccc	ttaacaatgc	tgccctccag	gaagagctgt	cctgtgaggg	ggggtctctg	300
tgggtcagag	atgtcatact	gcctcaggtc	cccatgcagc	cagttgtctg	agtagaggaa	360
gcggtcgtcc	agggagagca	ggatgtcgg	gatcaggcct	ggcatttcgg	gcagcagcca	420
gcccttact	ttcttggggg	gcacctggat	caccttctcc	actgacctg	t	471

<210> 111
<211> 468
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature

<222> (1) ... (468)

<223> n = A,T,C or G

<400> 111

actatgacca	tgattacgcc	aagcttggta	ccgagctcgg	atccctagta	acggccgcca	60
gtgtgctgga	attcgccctt	agcgtggctg	cggccgaggt	actnnntnc	ttntttaca	120
tctgatttta	atgcttcggt	aacttcaaaa	ggaactggta	gagttcanaa	ggtgagctgt	180
tgttttntcta	aacctnttcc	caggaagggg	acattgacac	ttgaattttt	gtcacctttt	240
tcctcattag	aaggaaagta	naaagcctta	ctgtaggatt	tttaaaaaaa	aatccatctc	300
accccatatt	ggtcttaaat	aagtatagac	taattaacct	aagctacctt	taacaacgta	360
gaatttagat	gggtccatat	atgtgagaaa	agcctgaata	tangacaggg	gtcctacttt	420
tttccccacc	tctgtcgcgc	aggctggagt	atagtgggtg	gatcttng		468

<210> 112

<211> 813

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (813)

<223> n = A,T,C or G

<400> 112

attgggcctc	tnnagcatgc	tcgacggccg	ccatgtgatg	gatatctgca	gaattcgccc	60
tttcgagcgg	ccgcccgggc	aggtaccatg	ctgacttctt	ggtatctttt	anggcctaata	120
tttcccttcc	ttgagattac	tgtagtgtgt	tccagctaat	ttctatttgg	aaacgagttg	180
gaacagctga	aaactaggta	ttattgaagg	caaagcagcc	tcacgtcagt	tttttatcag	240
ctcatttggg	aagttttntt	ttttttntn	ttaattaatt	agaaagtagg	ctgggcacgg	300
nggctcatgc	ctataatccc	agcacttggg	gaggccgagg	atctcctctc	tggtggatca	360
cttgagggca	ggagtttaaga	gaccatcctg	gccaacatga	tgaaaccctg	tctctactaa	420
aaatacaaaa	agtagctggg	cgtgggtggc	tactcttaca	atcccagcta	cttggggaggc	480
tgaggcagga	gaatcacttg	aaccaggaa	gcagagggtg	cagtgggcca	agatcacacc	540
actatactcc	agcctgggcg	acagagggtg	ggaaaaaagt	nagaccctcg	tcctatatctc	600
aggctttgct	cacatatatg	aacccatcta	aattctacgt	tgtaaagggt	agcttaggtt	660
aattagncta	tacttattta	agaccaatat	ggggtganat	ggattttttt	ttaaaaaatnc	720
tacagtaagg	ctttctactt	tccttctaata	gaggaaaang	gtgacaaaaa	ttcaagtgtc	780
natgcccttt	cctgggggaag	aggtttaaaa	aat			813

<210> 113

<211> 506

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (506)

<223> n = A,T,C or G

<400> 113

nccaacttgg	taccganctc	ggatccctag	taacggcana	cattganctg	atacgccaaag	60
cttggtaccg	agctcggatc	cactagtaac	ggncgccagt	gtgctggaat	tcgcccttcg	120
agcggccgcc	cgggcaggta	cgcggggcct	ctggcgctac	catggcgttt	ggcaagagtc	180
accgggatcc	ctacgcgacc	tcggtgggcc	acctcataga	aaaggctaca	tttgctggag	240
ttcagactga	agattggggc	cagttcatgc	acatctgtga	cataattaac	actaccagg	300
atggggccaaa	agatgcagtg	aaagctttga	agaaaangat	ttncaaaaac	tacaatcata	360
aagaaatcca	acttaccttg	tcacttattg	acatgtgtgt	gcagaactgt	ggtccaagtt	420
tccagtctct	gattgtgaag	aaggaaattg	ttaaagagaa	tttagttaag	ctactgaatc	480
ccagatacaa	cttgccatta	gacatt				506

<210> 114

<211> 813

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(813)

<223> n = A,T,C or G

<400> 114

ggggcccntnn	agctgctcga	gcggccgccca	gtgtgatgga	tatctgcaga	attcgccctt	60
agcgtggtcg	cgcccgaggt	acaacttatt	ctaaatattt	tcattttctg	tgttctaaat	120
agaaatatta	agttgcagta	aaaagagaaa	aaaaggctat	ttagcattac	aaagaatcat	180
atttaaaggc	tgcccaatgt	agagtctagt	gacctgttca	ggacacctga	aataataatta	240
aatgacaatt	atcaagggtt	taacaattta	taattctaaa	ccagaggatt	ataaagaagt	300
gcaaattgac	ttttacattc	aacttttagt	aaatgaaggc	actcagtatt	cttcctgaat	360
aatacattca	gtttctcaca	ttttatgctt	tcattctattc	agaattattt	catagtaaaa	420
taatctactc	ttatcacagc	tgtgtgacga	tttctaaatg	taggaaggcc	tgtgaaacat	480
gacactgcag	ttaaattggg	tggcctaagg	actaagtaat	ttttcttctg	ctgaagtttt	540
aagttagtat	ttgttccaaa	caagttctgt	tgaaatctca	cgctgttggtc	aggaatcagt	600
gttatcctgg	aactgttatt	ctatttaatc	ttcattatag	cagaaatgtg	ccaccatggc	660
tttgacatgt	tggtaggtat	tgtcttcag	gcttcaaagc	tgacacagag	ctacgtttta	720
gagagttggc	acctttgatg	tggtagttag	ctgatcatnc	actttcttct	cagtcaccat	780
cattttgagc	tcctttgtgc	tggtgagcat	can			813

<210> 115

<211> 471

<212> DNA

<213> Homo Sapien

<400> 115

accagctatg	acctgattac	gccaaagcttg	gtaccgagct	cggatccact	agtaacggcc	60
gccagtgtgc	tggaattcgc	ccttagcgtg	gtcgcggccg	aggtaacctg	attttggtgt	120
caggaaacaa	agaacatgaa	atattacatt	cttcagaatg	tttttcttgt	gccattaaat	180
gaatcaagta	aatgaggcaa	tgaggcacaa	ataagggaatt	tagatttcag	caatattttg	240
atccactgta	gctttcagtt	tctgaaactt	tggaaaggcc	tacatacttt	gtaagaattt	300
ttggcttata	ttgttaataa	tcaacagagc	caagaaaaca	tttcttagaa	tgttcaaaga	360
caccacctta	gccttccttc	cctgcagcta	taacattatt	tttctaagag	aaaaggcaga	420
gagtcttcac	aaagccatac	cagacttaaa	attaccagag	aacattttgg	t	471

<210> 116

<211> 818

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(818)

<223> n = A,T,C or G

<400> 116

ttncannngg	ccctagagc	atgctcgacg	gccgccatgt	gatggatata	tgcagaattc	60
gcccttttca	gcggccgccc	gggcaggtac	tttttttttt	tttttttttt	tttttttgtg	120
tgtggtcttg	aactcctggc	ctcaaattgat	cttcctgcct	cagcctccca	aagtcctggg	180
attactggca	tgagtcacca	cacctggctc	attctttttc	ttaatatggc	tctaaatggc	240
tttttatatt	ttttgctttg	gcaatttatt	tctaggaaat	taaataattc	tttcattata	300
atcaagggaa	tgaaagactt	caggaggtcc	atagtggagt	tcaaaacat	atggagtcca	360
ctattctaca	agattatata	ggcaataata	taagtattct	aagggtgttt	aggtagattt	420
atagatgtta	gatttcaaaa	tgggttaata	agtgtttatg	aatttccaag	gtgtatcact	480
aacttctcaa	gatgaaatca	tatatagaaa	ctatcaaaat	tttcttgggt	ctgtgtgcaa	540
gaaatgaata	atataactgt	atataactgt	aactcacatc	ttaaagggata	gtgcttgaat	600
aagctaattt	acaatgaggt	caagggtatta	ttttaaaatt	cttattgncc	ttagacaata	660
attatgccaa	caaagtgtgaa	aaatattaaa	tctccttctg	ntaatttttc	cagttttatt	720

accacaaagt cacacaggta atgcaagtca tgaataaat caaatgagcc cttcctggag 780
agcctacttt atttaccttg ggaaaatgga tgacatnt 818

<210> 117
<211> 467
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(467)
<223> n = A,T,C or G

<400> 117
accactatga cctgattacg ccaagcttgg taccgagctc ggatccacta gtaacggccg 60
ccagtgtgct ggaattcgcc ctttcgagcg gccgcccggg caggtactac tggttttctc 120
cctggcttca cgtgtctctg tggtccccta tgctgggggtg tcctcccagt gctttcaggc 180
ttcatctcct tctaaccctc tcctttctat tttttttttt ttttttgaga tggagtcttg 240
ctcagtcgcc cangtggag tgctaaccctc tcctttcatg tggagatgga cagggatggc 300
aggagcactg agtgctcttg acaacacccat tgaagatgat gctgacgac agctaccctg 360
tggagaaggc aggccaggct ggggtgagagg ggagctcctt ggaagtcagg gggctctgtaa 420
ggacagcaag gatctctttg tcccaacctc cagcagcctt tatgggt 467

<210> 118
<211> 815
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

<400> 118
gggcctctna agcatgctcg acggcccgcca tgtgatggat atctgcagaa ttcgccctta 60
gcgtggctcg ggcgaggta cctggggtct caggggtgct ctgggcctga tcatccactc 120
agatctgtaa ggaggatttg caggatccat tttagaaagat cctcccttac ttccacaagc 180
atggcctttg gctcttaaat acctgtgctg ggggtttgta attatagaaa caacaggaac 240
caaaactcat taatgttgag ctacaaacca gagggaagct tctttctcaa aacagggctc 300
aggcctagaa aaatctagtt ttctgaaatc gctagccagc aacagcactg agatggccat 360
cccagaaaaca aggccaaacac agaagcacc ataaaggctg ctggaggttg ggacaaaagag 420
atccttgctg tccttacaga cccctgact tccaaggagc tccctctca cccagcctgg 480
cctgccttct ccacagggtg gctgatcgtc agcatcatct tcaatggtgt tgtcaagagc 540
actcagtgtc cctgccatcc ctgtccatct ccacatgaaa ggagagggtta gcactccagc 600
ctgggcgact gagcaagact ccatctcaaa aaaaaaaaaa aaaatagaaa ggagagggtta 660
ggaaggagat gaagcctgaa agcaactggga ggacacccca gcatagggga acacagagac 720
acgtgaagcc agggagaaaa ccagtagtac ctgcccggcg gccgntcgaa agggcgaatt 780
ccagcacact ggcgggccgt tactagtga tccct 815

<210> 119
<211> 811
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(811)
<223> n = A,T,C or G

<400> 119
gggcctctnn agctgctcga cggccgccat gtgatggata tctgcagaat tcgcccttag 60
cgtggctcgc gccgaggtag tctatttttt gcttgatga ttgatgggtc ttccattatc 120

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tgtgattgac attctatgag taggtgcttt tgctttgcct ataagtcggtt attatgaagg      180
aggaatggtg aataagaagg taatttagaa aagcctatat taaatatacc atgaacattg      240
aatatagcaa gatcttattc tctagttgtt atcttagttg ataaattctg tatgtggtat      300
gtgtttgtgt atacatatgt acttaatctg atcgggtatct aaaagaagga aaggatggtc      360
aggaaacatt tatcataaat gtagccaagg atatcaatta gggtagacaa gaataggaca      420
aaaaataggcc agagctcctg aggaggtgat atgggtccct tgatttgacag aaaatgacag      480
cctatccaag tggcccagtg tatgcctccc agtagcagtg ggcattgtaa ctgcagcgac      540
cttattttta aaacaaaaaa cctagtatgt ggacaaagaa catgacaata tttggtacct      600
gccccggcgg ccgctcgaaa gggcgaattc cagcacactg gcggccgtta ctagtggatc      660
cgagctcggt ccaagcttgg cgtaatcatg gtcatactgt gttcctgtgt gaaattggta      720
tcccgcctcac aattnccaca cacatacga cccggaagca ttaaagtgtg aaagcctggg      780
gtgcctaattg aagtgaagcta ctcacattaa a

```

<210> 120

<211> 466

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (466)

<223> n = A,T,C or G

<400> 120

```

anttgcctg attacgcaa gcttgggtacc gagctcggat ccactagtaa cggccgccag      60
tgtgctggaa ttgcgccctt cgagcggcgg cccgggcagg taccacggtt ttgctccaca      120
ctccttgacc acaggggctc ggacacaaac ccctgtcacc aggagagtca gtcagcacta      180
cttgggaggg ctaaaggga atttggaaat aaaattccaa agtttgaggt aaaaaaattc      240
aagtgttgat tttatattct ttccctttct gacacagcct aaagcgtagg gggaacatgt      300
gtttatctgt gggagataaa caagatggag tcccaaagac ttttaacaaa tattttttta      360
aaaatccact agaatagaaa atacattatt tagatatact ttatgctgag agtgagtata      420
tatgcttgct ctatttaaac ttgtgagaaa aagtgggtatc ccttng

```

<210> 121

<211> 812

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (812)

<223> n = A,T,C or G

<400> 121

```

ttgggcccnt nnagcatgct cgagcggcgg ccagtgtgat ggatatctgc agaattcgcc      60
cttagcgtgg tcgcggcgga ggtacaactc tccagggcac aatacgttta cagctgcctt      120
tccttcacat acttttctaa ttcagaacta ctcacaattc taagcaaatt cccattcacg      180
aagtctgtcc ataagcgac cttctctttt ttttaacatat acatcttaaa aaacaaatat      240
ataaaaaaatt cttattttgc tggaatgctt tcaatttttc acattttaca tgatcatcac      300
atatttttct tatattgaaa ggcattggtt ctgttgacat gtcgtgcaaa gccaaaaaaa      360
aaaaaaaaaa aaagggtctg attgcttttc aattgggtct acacttttcc ttgtctaggc      420
tttggaattt aaagtccatg acagccccac caccagtaga aaccccaagg cttgcatttc      480
ctggtaatcg actggaaacg tcccctgttg gccatgctaa gattccttca acaggggtcat      540
cctgcattta ttctccttct gccccacccc cacaatgaaa caagatagcc cccatatttc      600
taaagtgtatc aagggtatcc actttttctc acaagtttaa ataggacaag catatatact      660
cactctcagc ataaagtata tctaaataat gtattttcta ttctagnnga tttttaaaaa      720
aatatttttg taaagtcttt ggggactcca tcttggttat cttccacaga taaaccatgt      780
tccccctacg ctttaggctg tggtcagaaa gg

```

<210> 122

<211> 467

<212> DNA

<213> Homo Sapien

<400> 122

actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgcc	60
agtgtgctgg	aattcgccct	tagcgtggtc	gcggccgagg	taccatgctg	acttcttggt	120
atcttttaag	gcctaatttt	cccttccttg	agattactgt	agtgtgttcc	agctaatttc	180
tatttggaag	cgagttggaa	cagctgaaaa	ctaggtatta	ttgaaggcaa	agcagcctca	240
cgtcagtttt	ttatcagctc	atttgggaag	tttttttttt	tttttttttt	ttttaattaa	300
ttagaaagta	ggctgggcac	ggtgggtcat	gcctataatc	ccagcacttg	gggaggccga	360
ggatctcctc	tctggtggat	cacttgaggg	caggagttaa	gagaccatcc	tgccaacat	420
gatgaaaccc	tgtctctact	aaaaatacaa	aaagtagctg	ggcgtgg		467

<210> 123

<211> 864

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (864)

<223> n = A,T,C or G

<400> 123

gggcctctng	agcatgctcg	agcggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
tcgagcgccc	gcccgggcag	gtactttttt	tttttttttt	tcttttttta	catctgattt	120
taatgcttcg	taacttcaa	aaggaactgg	tagagttcag	aagggtgagct	gttgtttttc	180
taaacctctt	cccaggaagg	ggacattgac	acttgaattt	ttgtcacctt	tttctcatt	240
agaaggaaag	tagaaagcct	tactgttaga	tttttaaaaa	aaaaatccat	ctcaccat	300
attggtctta	aataagtata	gactaattaa	cctaagctac	ctttaacaac	gtagaattta	360
gatgggttca	tatatgtgag	aaaaacctga	atataggaca	ggggtcctac	ttttttcccc	420
acctctgtcg	cccaggctag	agtatagtgg	tgtgatcttg	gcccactgca	acctctgctt	480
cctaggttca	agtgattctc	ctgcctcagc	ctcccaagta	gctgggattg	taagagtatg	540
ccaccacgcc	cagctacttt	ttgnattttt	agtagagaca	gggtttcatc	atgttgccca	600
ggatggntc	ttaactctcg	ccctcaagtg	gateccaccag	agaaggagat	cccttggntc	660
tccccaagtg	cctggggatt	attaggcatt	gaagcccacc	cgtggcccca	agccctacnt	720
tttcttaaat	taaattttaa	aaaaaanaa	nnnnnnnnnn	nnaaaaaaa	ccttttcccc	780
aaattgganc	ctgggtttta	aaaaacctgg	acccttnaan	gggcntggnt	tttggccctt	840
tnaaataaat	tncccctaag	gnnt				864

<210> 124

<211> 467

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (467)

<223> n = A,T,C or G

<400> 124

antatgacct	gattacgcca	agcttggtac	cgagctcgga	tccactagta	acggccgcca	60
gtgtgctgga	attcgccctt	tcgagcggcc	gcccgggcag	gtacatgcac	acacacacac	120
acacacacac	acgtgtctac	tgggtcctt	ttggattttt	tagttcaatc	agaaatcacc	180
aaacagatca	ataaagaggc	aatgttaaat	gaccgggaaa	ttggtaatgt	gacatcacia	240
cactgccttt	aagggtgccat	atctaaatcc	aggtagcact	gctgctagca	gaatctgttg	300
ttttaggaga	caagggtggg	ctgggtatgc	tggctcgtgc	ctataattcc	agcactttga	360
gagggcaagg	caggagaacc	acattaggct	aggagtttan	gaccagcctg	ggcaacatag	420
tgagatccca	tctctacaaa	aataaaaaaa	ttagctttcc	agctgct		467

<210> 125

<211> 833

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(833)

<223> n = A,T,C or G

<400> 125

gnnnnnnnnn	ngnnntnnnn	ntttaataga	tgagcgtag	gngcctgtaa	agcatgctcg	60
agcggccgcc	atgtgatgga	tatctgcaga	attcgccctt	agcgtgggtcg	cggccgaggt	120
acctgatatc	gtttaacttt	cctctttatc	tttcttagag	atacttcaca	tgtgggacag	180
attatatatt	ggaaagatgt	ccacaacaat	attgcccac	ccacattgct	catcttacia	240
tgtgatctca	agactcctcc	cactgagtg	gtgagaaggg	acttatacca	ctttcatttg	300
aatctaggca	gatctgtgtg	acagccttga	ccaatagagt	atgggttaaag	tgatgcccc	360
aggcatgggtg	gcccatacct	ggaatcctgg	tttttcggg	aggcccaggt	gggggtagag	420
gtgaggggga	tgattgtttg	aacacacgag	tttgagacta	ccctgagcaa	cacaatgaga	480
ccctattttt	ttttaatgat	ttctgaagca	gaatcacaaa	tagccgtgcg	ttttttctt	540
gcgcttttag	gatacttact	tttaaaaccc	agtcaccata	ttgttaggaa	gcccacacag	600
cacacataga	gagacatacg	gagaagccaa	ccatagaggt	tcctgttgac	agctcantcg	660
aggtcttaac	caacagtcac	acttagctgc	cagccatatg	agtgaagggc	ttncagatga	720
ttctaaagcc	cagcagttgg	gtccccccag	cctgtaagcc	ttcccagctg	aggcctnaca	780
atgatggagc	anagaaaagt	gtccctgtcc	aaattctgac	ccatgataaa	atg	833

<210> 126

<211> 788

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(788)

<223> n = A,T,C or G

<400> 126

nnnnnnntnn	nnacanttga	ctgataccca	acttggtag	gactcggatc	cactagtaac	60
ggccgccagt	gtgctggaat	tcgccccttag	cgtgggtcg	gccgaggtac	gcgggggagc	120
agagagaagc	gaggttctcg	ttctgaggga	caggctcgag	atcgggtgaa	gagagcgggc	180
ccaggctctg	tgaggaggca	agggaggtga	gaaccttgct	ctcagagggt	gactcaagtc	240
aacacaggga	acccctcttt	tctacagaca	cagtgggtcg	caggatctga	caagagtcca	300
ggttctcagg	ggacaggag	agcaagaggt	caagagctgt	gggacaccac	agagcagcac	360
tgaaggagaa	gacctgcctg	tgggtcccca	tcgcccaggt	cctgcccaca	ctcccacctg	420
ctaccctgat	cagagtcac	atgcctcgag	ctccaaagcg	tcagcgtg	atgcctgaag	480
aagatcttca	atcccaaagt	gagacacagg	gcctcgagg	tgacagggc	cccctggctg	540
tggaggagga	tgcttcatca	tcactttca	ccagctctc	ttttccatcc	tcttttctt	600
ctccttctt	ttctnctnct	nctnctgcat	ctntaatacc	aagcacccca	naggaggttt	660
ctgctgatga	tgagacaccc	aaatncttcc	anagtgtcna	anatagcctg	ntncttcccc	720
cttnggnct	gctttccctt	ncnttanatt	naatnctgat	taaggggttc	cancanncca	780
aaaggaat						788

<210> 127

<211> 766

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(766)

<223> n = A,T,C or G

<400> 127

gggcctctna	agcatgctcg	acggccgccca	tgtgatggat	atctgcagaa	ttcgcccttt	60
cgagcggccg	cccgggcagg	tactccaggt	agttttcctg	cacccaatct	tgggtgagca	120

gcttcctggg	ctccccataa	atgaggtgct	ccatcccatc	atacagcccc	atcatattca	180
gtgcttccca	gatgacctcc	tcaggggtgc	agtagccctc	tatgaagatt	atgcttagga	240
taagtatgag	aatgccagtc	ttgggcatgc	tctggacatc	actcagcatc	ccatcatagg	300
tgaggccccag	ggaggtgaca	aggacaaagg	agtggccagt	gggatccact	tcctttacat	360
caatgccaaa	gaccagcagc	atgcactcgg	aggcttcact	aaacaacaaa	gggaagtggg	420
cttcataatt	ttttatgaca	ctctccagta	tttctgcctt	tgtgatcggc	tccttcattt	480
gatacttgaa	gagcagaaac	tgcaccaaat	cagtcacctt	ttcatctatc	tcacttctgg	540
gtaaagactc	actgtctggc	aggacctgta	gggtgcttgg	actctcctcc	ttttggtgc	600
tggagccctc	atcagattga	tctaattgaa	gggaagcaac	gaccganggg	gaggagcagg	660
ctatctgagc	actctgggga	ggatttggtg	tctcatcatc	agcagaaacc	tnctctgggg	720
tgcttggtga	ttagangatg	gcaggaagaa	gaagangaag	aggaag		766

<210> 128

<211> 779

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(779)

<223> n = A,T,C or G

<400> 128

gnnnnntnnn	nacactantt	tnngacccgn	canctggtag	cgactcggac	cactagtaac	60
ggcgcgcagt	gtgctggaat	tcgccttttc	gagcggcccg	cccgggcagg	tactcctcat	120
cctgcgtttg	gtctccaggt	gtcgcctttc	tgccgtgttc	ctaataattt	gattcctgtc	180
ttgaaaaaag	cacctgctgc	acagtaagcc	cagggatgtg	gcagctgcag	cgggcttggc	240
tttgtgagga	acoggggtgtg	tccacgttgg	gggaacatca	tacttgatac	acacgttttt	300
atttgcacaa	agaaaatgct	atttttggag	ccagaatttt	catgtctgat	ttatggtgat	360
tttcttaaga	accagaactg	ctggcagaaa	gggggcaccc	acacgcttag	atagccgatg	420
tcttattaga	gggcagtttg	tggttcctga	tttggaatt	aatattctcc	aaacattcca	480
gtccaatgaa	agtttttatcc	gctttcccat	gtaaaaattc	ttcccatgag	agtgaactga	540
tcttcacaa	cccgttgaag	tcgtgtgtga	gtcctacagt	attaggttca	gcattgccgt	600
ctncaagtgc	tctttgtagg	gaaacagttt	ctgggtcatga	caagcttcca	cttccatctg	660
atcctggcct	ggcctggaaa	cagagcacat	gtggttgagg	atggcngtgt	ttggggacag	720
gacatgancg	tattgtgtgg	ggctgctagg	acangcgtgg	tgtggtgggg	gantgtccn	779

<210> 129

<211> 774

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(774)

<223> n = A,T,C or G

<400> 129

ttnnnantgg	gcccntngag	catgctcgac	ggccgccatg	tgatggatat	ctgcagaatt	60
cgcccttagc	gtggtcgccg	ccgaggtacc	tgggtgggac	tgggaaactg	tgaaacaagt	120
agactgactt	ggacactccc	ccaccacacc	acgcctgtcc	tagcagcccc	acacaatacg	180
ctcatgtcct	gtcccccac	accgccatcc	tcaaacacat	gtgctctgtt	tccaggccag	240
gccaggatca	gatgggaagt	ggaagcttgt	catgaccaga	aactgtttcc	ctacaaagag	300
cacttggaag	cggcaatgct	gaaccttaata	ctgtaggact	cacacacgac	ttcaacggga	360
ttgtgaggat	caagtcactc	tcatgggaag	aatttttaca	tgggaaagcg	gataaaactt	420
tcattggact	ggaatgtttg	gagaatatta	atttccaaat	caggaaaccac	aaactgccct	480
ctaataagac	atcggtatc	taagcgtgtg	ggtgccccct	ttctgccagc	agttctgggt	540
cttaagaaaa	tcaccataaa	tcagacatga	aaattctggc	tcacaaaaata	gcattttcct	600
tgtgcaataa	aaaacgtgtg	tatcaagtat	gatgttcccc	caacgtggac	acaccccggt	660
tcctnacaaa	gccagccccg	ctgcagctgc	cacattcctg	ggcttactgt	gcacangtgc	720
tttttttaag	acaggatcaa	atnttaggac	ccngnanaan	gcaacacctg	gaga	774

<210> 130
 <211> 803
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(803)
 <223> n = A,T,C or G

```

<400> 130
ggnnnnntnn anacgnatcn gacctganta cgccaacttg gtaccgagct cggatccact    60
agtaacggcc cgccagtgtg ctggaattcg cccttagcgt ggtcgcggcc cgaggtacct    120
tggaagttat gtcattaata taggctgggt cgtcaaataa agcaaacct tgcaatatca    180
gctagattta cactccggga cgttgcccaa aggtaggaag aaagcagagg gaaatatttc    240
agtcattcatt tccaaagtca ttatcaaaat ctgtgaggaa gtttaattctt ccaaagagtc    300
aatgtcagac atcaggcctc tgttgctgc ttctctcgag gcactagatt aggagtcttc    360
aataagagac ttaacatgag gtatatggaa gatgaggcac cgagataagt tcatcattag    420
gtgtgagcac tgctcacctc tgctggcaag ttctccttaa ggcctgaag cacaggtgtc    480
caaagaaaag cgttaagtcc atcttaataa aatctatgtg gtatatgatg tggtcagccc    540
ccggtctgtg atcagcaaga acctacagca cagattatgc cctgccact tcaatgaata    600
cctactctcc tncattctcc atcacttttt ttgctatcaa gactccggac cttgcccatg    660
gagaagttta gagaggaact cttgtggaga gctgggttat tttctgcctt gtgcgacgag    720
tttcagcttg gccaaagaaa ggagtcaagg ttattaaaaa gcatcacaat ggtagatctt    780
ccaggcttgg ntttttttgt ttt                                     803
  
```

<210> 131
 <211> 818
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(818)
 <223> n = A,T,C or G

```

<400> 131
antgggcctc tnnagcatgc tgcacggccg ccatgtgatg gatatctgca gaattcgccc    60
ttngcccgtc ttccagncgg gaaacctgtc ntgccagntg cattaatgaa tcngccaacg    120
cgcgnggaga ggcggnntgc gtattgggag ctcttcgctc tcctcgctca ctgactcgct    180
gcgctcggcc gttcngctgc ggcgagcggg atcagctcac tcaaaggcgg taatacngtt    240
atccacagat caggggatan cggcaggaaa gaacatgtga ncaaaaggcc agcaaaaggc    300
caggaaccga aaaaaggccg ctttgttggc gtntnaccat aggctcnncc cccttgacna    360
gcttcacaaa aatctacgct cagntcccag gtgcnaaatc ccganaggac tntaangatt    420
cnnngnnttt cccctgaan nctncctant gcgctctcct gtnccaacct tgccgtttac    480
cggataacctg nccgcctnna tnccttcgng aagcntggct tttnaatngg ctcaactttt    540
gggnatctaa aancggnnta ggcngnncgt tnnaaantng nntttttgcn caaacccctt    600
gtttaaactn acccatngc attatcccgg aaacttttgg tnttngaate caaccnggna    660
aanacacnan ttaatnngcc nttggcntga aaccacttgg ggtnaaccat ggattttggc    720
ncnaccnagg gtnnttttnn ngcnggtnc ntaccggag ttctttnaaa acngggtggg    780
cncttanacc tatcnggnnt tcccctttan aaaaaaat                                     818
  
```

<210> 132
 <211> 777
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(777)
 <223> n = A,T,C or G

<400> 132
 acnntatgac ntgantaccc aacttgggtac cgactcggac cactagtaac ggccgcccgt 60
 gtgctggaat tcgcccctcg gcccgcccgg gcaggtacct ggaaaataac ttctttcttt 120
 tcctctagat tttcgaagaa gcaataaat caagaataga aacctatata taggaggttg 180
 ggccctctgc aaagaatgaa gcactttttg ttaaatacag gagaggctac ttggctgcac 240
 taatatgtgc tttttggaat cttatagagt gtcaccaagt tgaactttgg aatggcttga 300
 atcatccctg gagcatctgt gccgggcagt caggagttag tgcaccgctt cccaccagc 360
 cccattgggc ctcacaccct cttcattcct ttcccatga ggcaggcaaa caccgtcatg 420
 accatttttg gggttacttc aaccaggtct tctggcaggg catacactct tgctccaatt 480
 tttcgggcca tagagatggc atattttgca ttgttgagtt tctcatcatc attcagattt 540
 tctgtcttca gaaggtcata gttaatggaa cctgggttga tggcatcgat gangtccaga 600
 acaggcgagc ttgtacctcg gccgcgacca cgctaagggc gaattctgca gatatncatc 660
 aacttgccgg gccgntcgag catgcactca ganggccaa ttcgccttat agtgagtcgt 720
 attacaattc actgggccgt cgttttacia cgtcgtgact gggaaaacc tgcgttn 777

<210> 133

<211> 775

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(775)

<223> n = A,T,C or G

<400> 133
 ntgggcctct nnagcatgct cgacggccgc catgtgatgg atatctgcag aattcgccct 60
 tagcgtggtc gcggccgagg tacaagtctg cctgttctgg acctcatcga tgccatccaa 120
 ccaggttcca ttaactatga cttctgaag acagaaaatc tgaatgatga tgagaaactc 180
 aacaatgcaa aatatgccat ctctatggcc cgaaaaattg gagcaagagt gtatgccctg 240
 ccagaagacc tggttgaagt gaaccccaaa atgggtcatga ccgtgtttgc ctgcctcatg 300
 gggaaaggaa tgaagagggt gtgaggccca atggggctgg gtgggaggcg gtgcactcac 360
 tcctgactgc ccggcacaga tgctccaggg atgattcaag ccattccaaa gttcaacttg 420
 gtgacactct ataagattcc aaaaagcaca tattagtga gccaaagtag ctctcctgta 480
 tttacaaaaa agtgcttcat tctttgcagg aggcccaacc tncatatat aggtttctat 540
 tcttgattta tttgcttctt cgaaaaatca gaggaaaaga aagaagttat tttccaggtta 600
 cctgcccggg cggccgaang gcgaattcca gcacactggc ggccgttact agtggatccg 660
 agctcggtag caagcttggc gtaatcatgg tcatagctgt ttctgtgtg aaattgntat 720
 ccggtcacia ttcccacaca tacgaaccgc gaagcataaa gtgtaaagcc tgggg 775

<210> 134

<211> 772

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(772)

<223> n = A,T,C or G

<400> 134
 acnnttgacc tgatacccag ctgggtccgac tcggacccta gtaacggccg ccatgtgctg 60
 gaattcgccc ttgagcggcc gccggggcag gtctataagt ctttaaattg ggtcgtgttt 120
 ttagcaggta agactaattt atctcttctc cagtgaattg atgctgggtg gattcgattt 180
 cacatcacia cttatattga tagggatttc cttcccaaga gtaataaatt gtttggtttg 240
 atataaactt gggggcatat tcaatatcaa ggtacttttt tttttttttt aagtttttag 300
 tcagaataac attaatattg agagattgag gtaagaacc ttaactaatg ctaaggagtt 360
 tattttgatt aacatagggt attctgacca ccacctcttc cttccttaat ctcccttagaa 420
 tctgacagtc tcaaaagctgt cacacaaatt agactaattt tgacactttg aaatgaaaac 480
 ttcaaggagc aagtagccac ggacagttat gtttataatc agtaggtggc actctttcct 540
 caggtagccc cccattttca catgatgtgt ttgaaggtta aatgcccaca aagtgtctgag 600
 tcagctataa aactaagtc ctagaattcca tggccctttt aaatatgtaa tcattcaaga 660

```

ttgaaaaaaa aaattaagca ttttttgntt gnttgcttgg ttggttttga gacngagttt 720
cactcttgnt ggccaggctg gagtgcattg gcgccatctn actcactgna ag 772

```

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<210> 135
<211> 784
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

```

```

<400> 135
ntgggcctct nnagcatgct cgacggccgc catgtgatgg atatctgcag aattcgccct 60
tagcgtggtc ggggcccagag gtacttcttt tgaataattc agtattttta aaatgcaagc 120
caggcacagt ggctcacgcc tgtaatccag cactttggaa ggccgaggtg gggggatcac 180
gaggtcagga gttcaagacc agcctggcca acatggtgaa acctcatctc tactaaaaat 240
acaaaaacta gctgggcatg gtggcgggca cctgtaaccc cagctacttg gagggctgaa 300
ggagaattgc ttgaatccgg gaggcagagg ttgcagttag ctgagatggc gccattgcac 360
tccagcctgg ccaacaagag tgaactccg tctcaaaaac aaacaagcaa acaaacaaaa 420
aatgcttaat tttttttttc aatcttgaat gattacatat ttaaaagggc catggaattc 480
agggacttag ttttatagct gactcagcac ttttgggtggc atttaacctt caaacacatc 540
atgtgaaaaat ggggggctac ctgaggaaaag agtgccacct actgattata aacataactg 600
tccgtggcta cttcttcctt gaagttttca tttcaaagtg tcaaaattag tctaatttgt 660
gtgacagctt tgagactgtc agattctaag gagattaaag gaanggaaga ggtgggtggc 720
agaataacct atgttaatca aaaataaact tccttagcat taagttaang gtcctttacct 780
caan 784

```

```

<210> 136
<211> 768
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

```

```

<400> 136
acnttgantg naccacttg tccgactcgg atccctagta accggcgagt gtgctggaat 60
tcgccctttg agcggccgcc gggcaggtag tttttttttt cttttttttac atctgatttt 120
aatgcttcgt taacttcaaa aggggaactgg gtagagttca gaaggtagagc tgttggtttt 180
ctaaacctct tcccaggaag gagacattga cacttgaatt tttgccacct ttttcctcat 240
tagaaggaaa gtagaaagcc ttactgtagg atttttaaaa aaaaatccat ctcaccccat 300
attggtctta aataagtata gactaattaa cctaagctac ctttaacaac gtagaattta 360
gatgggttca tatatgtgag aaaaacctga atataggaca ggggtcctac ttttttcccc 420
acctctgccc cccaggctag agtatagtgg tgtgatcttg gccactgca acctctgctt 480
cctaggttca agtgattctc ctgcctcagc ctcccaagta gctgggattg taagagtatg 540
ccaccacgcc cagctacttt ttgtattttt agtagagaca ggggttcatc atgttgggca 600
ggatggtctc ttaactcctg cctcaagtg atccaccaga gaggagatcc tcggccttcc 660
caagtgctgg gattataggc atgagccacc gtaccagcc tactttctaa ttaattaaaa 720
aaaaannnnn nnnnaaaaaa acttnccaaa tgactgataa aaaactgc 768

```

```

<210> 137
<211> 777
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(777)

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<223> n = A,T,C or G

<400> 137

ttgggcctct	ngagcatgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtggtc	gcgcccgagg	taccatgctg	acttcttgg	atcttttaag	gcctaatttt	120
cccttccttg	agattactgt	agtgtgttcc	agctaatttc	tatttggaag	cgagttggaa	180
cagctgaaaa	ctaggtatta	ttgaaggcaa	agtagcctca	cgtagtctt	ttatcagctc	240
atttggaag	ttttttttt	ttttttttt	ttttttaatt	aattagaaag	taggctgggt	300
acggtggctc	atgcctataa	tcccagcact	tggggaggcc	gaggatctcc	tctctggtgg	360
atcacttgag	ggcaggaggt	aagagaccat	cctggccaac	atgatgaac	cctgtctcta	420
ctaaaaatac	aaaaagtagc	tgggcgtgg	ggcatactct	tacaatccca	gctacttggg	480
aggctgaggc	aggagaatca	cttgaacctc	ggaagcagag	gttgtagtgg	gccaagatca	540
caccactata	ctctagcctg	ggcggcagag	gtggggaaaa	aagtaggacc	cctgtcctat	600
attcaggttt	ttctcacata	tatgaaccca	tctaaattct	acgttggtta	aggtagctta	660
ngttaattag	tctatactta	tttaagacca	atatgggggtg	agatggattt	ttttttaaaa	720
atcctacant	aaggctttct	actttccttc	taatgaggaa	aaaagtggca	aaaattt	777

<210> 138

<211> 950

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(950)

<223> n = A,T,C or G

<400> 138

nnnnnnnnnn	nnnnnnnnnn	ntnnnnnnnn	nnnnnaaanc	cnnnnnttna	nnngnnaaac	60
cccattggna	aanttaaccn	cccccaaaa	gcccttngg	ggtttaaccc	ccgaaagcct	120
tccgggggna	atccccaact	ttaagttaaa	acnggggccc	cgggcccaag	ttggttggcc	180
tttgggggaa	aatttcgcgc	ccctttccga	agccgggccc	ggccccgggg	gccaagggta	240
ccatgggaat	ggttaccttt	tggcaagaac	tggtaaaacc	ctggaaattt	tggatatttt	300
gctttggaca	ttggccctaa	attaattaag	tttcaagggtg	gtcaggcttt	acccactttt	360
tggctctggca	acatgcagaa	gagacagtgc	cctttttagt	gtatcatatc	aggaatcatc	420
tcacattggt	ttgtgccatt	actgggtcag	tgactttcag	ccacttgggt	aagggtggagt	480
tggccatatg	tctccactgc	aaaattgctg	attttccttt	tgtaatat	aagtgtgtgt	540
gaagattctt	tgagatgagg	tatatatctc	actcttcac	aaactataag	tttttttaag	600
taaaagaaaa	tttattatga	aactaaagga	ataaaagaat	gaccactcca	taggcagaga	660
aacgtcactt	taaggttttg	acgtcaattg	atttttgtcc	aatcaataa	ttactgcaat	720
gattgaaaaa	tgattattac	taagtttgtt	ttcattgtct	caaggtctgc	tgaactctgg	780
atccaggctg	tgtcaacagg	gtagtgtggt	gcctcctgta	cctcggccgc	gaccacgcta	840
agggcgaaat	ctgcagatat	ccatcacact	ggcgccggtt	cgagcatgca	tctagagggc	900
ccaattcgcc	tatagttagt	cgtattacaa	ttcactggcc	cgcgttttag		950

<210> 139

<211> 779

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(779)

<223> n = A,T,C or G

<400> 139

ttgggccent	agagctgctc	gagcggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtggtc	gcgcccgagg	tacaggaggc	accacactac	cctgttgaca	cagcctggat	120
ccagagttaa	gcagaccttg	agacaatgaa	aacaaactta	gtaataatca	tttttcaatc	180
attgcagtaa	ttattgattt	ggacaaaaat	caattgacgt	caaaacctta	aagtgcaggt	240
tctctgccta	tggagtggtc	attcttttat	tcctttagtt	tcataataaa	ttttctttta	300
cttaaaaaaa	cttatagttt	gatgaagagt	gagatatata	cctcatctca	aagaatcttc	360

acacacactt	attaattaca	aaaggaaaat	cagcaatfff	gcagtggaga	catatggcca	420
actccacctt	acccaagtgg	ctgaaagtca	ctgcaccagt	aatggcacia	accaatgtga	480
gatgattcct	gatatgatac	actaaaaagg	gcactgtctc	ttctgcatgt	tgacagacaaa	540
aagtgggtaa	gctgacactg	aaactaataa	ttaggcaatg	tcaagcaa	acaaattcag	600
gttgacagtc	tgcaaagtaa	catccatgta	cctgcccggg	cngnccgctc	gaagggcgaa	660
ttccagcaca	ctggcgcccg	ttactagtgg	atccgagctc	ggtaccaagc	ttggcgtaat	720
catgggcata	gctggttcct	gtgtgaaatt	ggtatncgct	cacaattncc	acaacatag	779

<210> 140

<211> 779

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (779)

<223> n = A,T,C or G

<400> 140

gcccntagag	catgctcgac	ggccgcccagt	gtgatggata	tctgcagaat	tcgcccttag	60
cgtgggtcgcg	gccgaggtac	caggtgggct	gacgcacatc	ccctaaacat	tctggatctc	120
ttactcatcg	tgaaaggcag	acgctctaag	tctaaagtct	agggtaggag	tttccattct	180
ttggaaaaacc	aaagatgggt	actcttctta	atgaaactga	gaagaaggta	tctacagaaa	240
acactgaatt	taaacaaaatt	atgacctgtg	ttgttgaagc	catcaaggac	ccaagatata	300
tcaaagaaca	acatctctgt	attggcctac	aggttcagag	tgttttgagg	tctgtttaag	360
cactaatagg	atttttagggc	agcatccagt	cagaagagat	agttcacaga	ctcagagttg	420
gaaacagatt	aaaaaaaaaa	agatgtcaac	atagaaaatg	atgatagagt	ttagttaaaa	480
aaattcacac	ataaaattac	agttaaaaaa	attcacacat	aaaatagagt	gtttgcatag	540
caagacatta	ttgcccttca	gcctggcaga	aaaacataaa	ctcagggtga	tattttataa	600
taaacattgt	attgaatgct	aagaatgata	cactgttgaa	catctcctga	atggtttgcc	660
ttcttgtaaa	tcataccaat	tgtttagaca	attgaaatc	caagctcttt	ctctctctcc	720
atataaaaac	caacagaaac	anggaggctg	ttagtagcaa	gctcctcatg	ggaaanggt	779

<210> 141

<211> 986

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (986)

<223> n = A,T,C or G

<400> 141

aanccnnnnn	ntttatttgg	gnaaacccaa	ttgggnaaaa	ttnaaccogn	cccccnnaaa	60
ngcccttttn	gggggttnaa	ccccccggaa	aaccttttcc	ggggggaaat	tccccaacct	120
ttaaagnttt	aaaaaccggg	gggccccggg	cccccaaagt	ttgggttggc	cnttggggga	180
aaaatttttt	ccgggcccc	cnttttaaa	cccggttggg	gtttccggcc	ngggggcccc	240
gggaaagggt	tnacctttt	ttttttaact	tttttnnnnt	tccttttttn	nttccttttt	300
tttctttttt	tttttctttg	gtntnnnttt	ttttttcaat	tttttggttt	ttggttttttg	360
gttatggttt	ttttagaaca	ggggtccccc	tctgtcaccc	aggctggagt	gcagtgggtgc	420
aatcacaggt	cactgaaacc	tcccacctag	ctgggactag	agggtcaggc	caccacacca	480
gctaatttat	gtaatttttg	tagagacgag	tttcaccacg	ttacctaggc	ttgtcttgaa	540
cacctgggct	caagcaatct	tcagccccca	gcctcccaaa	gtgctgggat	tacagggtata	600
aaccacaatg	cccccgtttt	tactctttac	tgcatccttc	ccatcagtat	taattcctca	660
gaaattttagt	acccctgtgc	ttcattcagt	atcagtaacc	ctgcaatgat	ttttacaaat	720
atctttttct	agtggtgttt	ttacttagag	gaaagaactt	tgtaatagct	cttaatgttt	780
atatataaga	gaagacagaa	tggaatgt	tttttgaaat	caaataattgc	atgatgtaaa	840
gaaaaaactt	taaaacttaa	tgagtanggt	tgctctgaat	tacactggta	actctctact	900
tcctttattaa	agaagttata	gtaagatgcc	tttggnatcc	tgatttcagt	gtacctgccc	960
gggcccggccg	ntcaaaaagg	cgaant				986

<210> 142
<211> 780
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 142
gggcccgtan agcatgctcg agcggccgcc atgtgatgga tatctgcaga attcgcctt 60
tcgagcggcc gcccgggcag gtacactgaa atcaggtaac aaaggcatct tactataact 120
tctttaataa agaagtagag agttaccagt gtaattcagg acaacctact catttaagtt 180
taaagttttt tctttacatc atgcaatatt tgacttcaaa aaacattttc cattctgtct 240
tctcttatat ataaacatta agagctatta caaagtctt tctcttaagt aaaaaaccca 300
ctagaaaaag atatttgtaa aaatcattgc agggttactg atactgaatg aagcacaggg 360
gtactaaatt tctgaggaat taatactgat gggaaggatg cagtaaagag taaaaacggg 420
ggcattgtgg tttatacctg taatcccagc actttgggag gctggggctg gaagattgct 480
tgagcccagg tgttcaagac aagcctaggt aacgtggtga aactcgtctc tacaaaaatt 540
cataaattag ctggtgtggt ggctgcacc tctagtccca gctaggtggg aggtttcagt 600
gacctgtgat tgcaccactg cactccagcc tgggtgacag agtggggacc tgtctaaaaa 660
aaacataaca naacanaacn naatgaaaaa aaaaacaaga aaaaagaata gaaaaagaaa 720
aaagtnaaaa gtnectcggn cgcgaccacg ctaagggcga attccagcac actgcggccn 780

<210> 143
<211> 794
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(794)
<223> n = A,T,C or G

<400> 143
nnnnnnnnnn nnnacnnttg actgataccc aacttggtac cgactcggac cactagtaac 60
ggccgccagt gtgctggaat tcgcccttcc gagcggccgc ccgggcaggc acagaaaagaa 120
gagccaggat attctttgtt ttcctaagcg tagctgtgag caacattatc tctcctactg 180
gcttctttga ggtatgagag tcatcattac atctgtgtgc tttgtcaagt tatatgtcac 240
aattccacct gtgggtagag aacaagcaca agagtcacat caactgtgtg ctgggccagg 300
gttatgtcac aatcttccct gagagcatgc accaggcaga agagtcacat cacagggttc 360
tcaaccagag atgttacaat cctctcctga aagcaggaca caggaaaaag agtaagatca 420
cctgcatgct gggctcagat atatgtcaca agactcactg tgggcaaaag ccagaaggac 480
agacagaaca gctggttgct tgacccagca atatgtcaca atcttctcta tgggcagaat 540
gcaggcagaa gtagagggct tcatcttcca ggtgatggat taaaaaata catcccaagg 600
ctctctgtgg gaaagggctc angcagaaac tttccaaccc ctangtgttt gcttcagtga 660
tatgtcacaa ttaacaaaaa tatgcagggt tcaagcaagt gagtnaagtc atatcaccta 720
nggtgcttgg tccanaaatc tgncaacaat tttttttttt ttttggcatg cccagcngaa 780
ttgaaaagtc ncan 794

<210> 144
<211> 782
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(782)
<223> n = A,T,C or G

<400> 144

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cnannngggcc cntagagcat gctcgacggc cgccagtggt atggatatct gcagaattcg      60
cccttagcgt ggtcgcgggc gaggtacaat cttggctcac tgcaacctcc acctcccggt      120
ttcaagcaat tctcctggct cagcctcctg agtgctggga ctacaggcat gcaccaccac      180
tcccacctaa ttttgtattt ttgatagaga cggggcttct ccatgttggt caggctgttc      240
tcaaactcct gacctcaggt gatttgactg tcttagcctc ccacagtgtg gagcttatag      300
gcagggtgcc cgacacctgg ctggaatcat ttatttcaac atatctctgg gtccaacaac      360
atggtgatgc aactttcctg catgggccct cccacagaaa tactctaata catcttttca      420
ttcattatct tgggtgatgtg acttttctat tctgcttggg cactgccaaa aaaaaaaaaa      480
aagattgtga cagatttctg gaccaagcac ctagggtgata tgactttact cacttgacctg      540
aaacctgcat attttgggta ttgtgacata tcactggaagc aaacacctag ggggtggaaa      600
gtttctgcct gagcccttcc acagagagcc ttgggatgta tttttttaat ccatcacctg      660
ggagatgaaa cctctactt ttgctgcat tctgccata gagaagattg tgacatattg      720
ctgggtcaag caaccagct ggtctgctgt cctnttggac tttgccaca agtgagtttt      780
gn

```

```

<210> 145
<211> 780
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

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<400> 145
annnttgacc tgataccag cttggtaccg agctcggatc cactagtaac ggccgccagt      60
gtgctggaat tcgccccttc gagcgccgc ccgggcaggt acttttttta cttttttttt      120
cttttttttt ttggacatct gttttcactc ttaggctttt aaacaatagt tattgctttt      180
atccctctca gattctaata actgagagcg atggggctat attgaatctc tgtatgcact      240
gagaactgag ctatgaagag gatcttatta aactgctggt ctgactttat ggattgacac      300
tgttccttcc ttttattgtg aaaaaaaaaa aaaaccctga aagtcttggg aaccocctaa      360
agtcttttgg gaatcctcaa aaagcatggg aagttaagta tttagctaca taaatgttgt      420
aagatcatat cttatgtata gaagtaataa gaccatttgg aattactgga ctaattgaat      480
agttaagggt tctattcggg acaataaaat gtattttgaa agtgctgcta actattgatg      540
ctgacagtgt ttcactccta tgagtgacc aaacatatta taaatatgtg gtaaagggaa      600
tggagcctgt ggggttgagc agaatgttgg actttttttt tnnnnnnnnn nttttttngc      660
tttctattng atngataacg atttcnggat tncctttaa nncncngang gtttggaac      720
tttgactggg attctggttc ccngaaacag gttcactggg nnccggggga cacttttaan      780

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```

<210> 146
<211> 778
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(778)
<223> n = A,T,C or G

```

```

<400> 146
ttgggcccct agagcatgct cgacggccgc catgtgatgg atatctgcag aattcgccct      60
tagcgtggct gcggccgagg tacatggagg cctggactgt aaagagacta cggaaggggc      120
agcatgtgtg ttttgcttct cagattcatt gtcactcacg ttgcataaag tcctcagttg      180
tttttaagta attgttttac tatggatata ttaaataac agaataaaaa agggaataaa      240
catacaattt ggcaaaccct ctactgagcc tttaaaaata ttagaagggt ggtattaaac      300
caggtaactt acggatttgg aaaaaaaaaa aaaaagaaag cattgaatat ggctgggagg      360
ttctctgggg atccttgggc agaccaggt tgcccagatt tctcactgta gttttcaaga      420
ataactgtag gaggcggtgg gagtgcagca tccctgagata agggagacga gccagaacag      480
cgcgggcact gtccagccc ccctagaaat ggggtgatct tcagtgttcc agctcagtgt      540
gtcatgttcc acccagcatg taaaagccta ggatcggagg cttccccagg gttcgtcagc      600
tgtggcacia tagggcccgt tgcaaataag attctattcc tgtcagacag tttcgtgagt      660

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ttgtggggga acactcacc tagcttctgn tgnctcttca tgectgtgtg ttcctaataca 720
acttttttgn gtaacttggg gttttgaaag tgtcaccagc acacaatgga acctgtcn 778

<210> 147
<211> 784
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

<400> 147
acnntatgac ctgattacgc caacttggtg ccgactcgga ccactagtaa cggccgccag 60
tgtgctggaa ttgcgccctt cgagcggcgg cccgggcagg tacttttttt tttttttttt 120
tttttttttg ggattgaatc aacatgcttt aataggaaaa gatgtatggg ctatatatgn 180
atcaatctgg ngaancctcg ntctaataaa gggctctttt cttttctatg atacacacag 240
ncacgctgat aatatgcnaa tgaacatttt cctttatgnc tctncanata atggttattg 300
gctgaggnaa attaaattcc caccangntg tgctgncagt attttaacac ccacattagt 360
atatgcntnc aggggtcataa ccccttaaaa tccatnatgc aaccttatta atctggcttg 420
ggantccngg ttaatgcttg gatttanttc ctgattacac tncntngaaa agtgagacat 480
ttgncattcc caactttggg aaaaccaact tatattcaac cntntnaatg aaggccatct 540
tgatggntcc aacactaatt tttatgatgc aaattttatac acngattttt gtaaagggca 600
aagttttaaa agcgtattta acttgatggg ttctatcagc attaatnaaa tggncatgaa 660
taggcattaa aaacagtggc cagtgatnat ctgcatgaaa ggaaaaagaa cctgcaaat 720
ggctattgaa nttggaaata ttgntttga natgtaagaa aatntttaga aagctcncnc 780
tgng 784

<210> 148
<211> 775
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 148
gggcccantan agcatgctcg acggccgccca gtgtgatgga tatctgcaga attcgccctt 60
agcgtggctcg cggccgaggt acaaagcact gtttaaaacc agtccaagat acttaatcca 120
aactgtatca tgattcttca ttagaaatct agacaccact catgggtggtt tcttacactt 180
taaaaagttg aggcattttc agtgtgagca ttctgaatat ctcttacata tcaaaaacaa 240
tacttccaac tcaatagcca ttgacagggt tctttttcct tcatgcagat tatcactggc 300
aactgttttt aatgactatt catgaccatt ttatttatgc tgatagaaaa catcaagtta 360
aatacgcttt taaaactttg tcttttacia aaatcagtgat ataaaatttg atcataaaaa 420
ttagtggtga gaccatcaag atggccttca tttatatggt tgtatattag ttggttttcc 480
cagagttggg aatggcagat gtctcacttt tctatgtagt gtaatcagga aataaatcca 540
agcactaaac aggaatccca agacagatta ataagggtgc atgatggatt ttaggggggt 600
atgaccctgg acgcataatc taatgtgggt gttaaaatac tgacagcaag cctggtggg 660
aattaattta cctcagacaa taaacattat ctggagagac ataaaaggaaa atgttcattt 720
gcatattatc agcgtggctg ggtgtatcat agaaaaagaa aaagaacctt ttan 775

<210> 149
<211> 783
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(783)

<223> n = A,T,C or G

<400> 149

acnntatgac	ctgatacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgccc	60
agtgtgctgg	aattcgccct	tagcgtgggc	gcggccgagg	tacccgatta	aaccagagca	120
aaaactacct	tctgcaggtc	agggagctaa	tgacatggca	ttggccaaac	gttcccgcag	180
tcgaactgct	acagaatgtg	acgttcgtat	gagcaagtct	aagtcagaca	atcagatcag	240
tgacagagct	gctttggagg	ccaaagtga	ggatcttctc	acgctggcaa	aaaccaaaga	300
cgtagaaatt	ttacatttga	gaaatgaact	gcgagacatg	cgtgcccagc	tgggcattaa	360
tgaggatcat	tctgagggtg	atgaaaaatc	tgagaaggaa	actattatgg	ctcaccagcc	420
gactgatgtg	gagtcacact	tattgcagtt	gcaggaacag	aatactgcca	tccgtgaaga	480
actcaaccag	ctgaaaaatg	aaaacagaat	gttaaaggac	aggttgaatg	cattgggctt	540
ttccctagag	cagaggttag	acaattctga	aaaactgttt	ggctatcagt	ccctgagccc	600
agaaatcacc	cctggtaacc	agagcgatgg	aggaggaact	ctgacttctt	cagtgggaang	660
ctctgcccct	ggctcantgg	gaggatctct	tgagtcagga	tgaaaaataca	ctaattggacc	720
attagcacag	tacttcatgg	caatttagac	agtgagtga	atgaggtcta	ccagcccctt	780
ann						783

<210> 150

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (771)

<223> n = A,T,C or G

<400> 150

ggggccntan	agcatgctcg	acggccgccca	tgtgatggat	atctgcagaa	ttcgcccttt	60
cgagcggccg	cccgggcagg	tactgtgttg	gttctcttcc	atctggtgta	tccgttcagt	120
caggcaagcc	acggacactt	cactggcatt	cccgtgctc	cccttcggg	agcgtcttat	180
gctggggatg	ccttcgcact	ctgaggagga	tggtgcatcc	agcgcacat	cgctcgatgt	240
gaggggctgg	tagacctcac	tgcaactcact	gtctaaattg	tccatggagt	tactgtgctg	300
atgggtccatt	agtgtatttt	catcctgact	caagagatcc	tccactgagc	caggggcaga	360
gccttccact	gaagaagtca	gagttcctcc	tccatcgctc	tggttaccag	gggtgatattc	420
tgggctcagg	gactgatagc	caaacagttt	ttcagaattg	tctaacctct	gctctagggg	480
aaagcccaat	gcattcaacc	tgctctttaa	cattctgttt	tcatttttca	gctggttgag	540
ttcttcacgg	atggcagtat	tctgttcctg	caactgcaat	aaagtggact	ccacatcaag	600
tcggctgggtg	agccataata	gtttccttct	cagatttttc	atcacctca	gaatgatcct	660
cattaatgcc	cagctgggca	cgcattgtctc	gcagttcatt	tctcaaatgt	aaaatttcta	720
cgtctttgggt	ttttggcagc	gtgagaagat	ccttncttgg	nctcnaagcn	g	771

<210> 151

<211> 778

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (778)

<223> n = A,T,C or G

<400> 151

acnntatgac	ctgatacgcc	agcttggtac	cgactcggat	ccactagtaa	cggccgccag	60
tgtgtctggaa	ttcgcccttt	gagcggccgc	ccgggcagg	actttttttt	ttcttttttt	120
acatctgatt	ttaatgcttc	gttaacttca	aaaggaactg	gtagagtcca	gaagggtgagc	180
tggtgttttt	ctaaacctct	tcccaggaag	gagacattga	cacttgaatt	tttgccacct	240
ttttctcat	tagaaggaaa	gtagaaagcc	ttactgtagg	atttttaaaa	aaaaatccat	300
ctcaccccat	attggtctta	aataagtata	gactaattaa	cctaagctac	ctttaacaac	360
gtagaattta	gatgggttca	tatatgtgag	aaaaacctga	atataggaca	ggggctctac	420
ttttttcccc	acctctgccg	cccaggctag	agtatagtgg	tgtgatcttg	gcccactgca	480

acctctgctt	cctaggttca	agtgattctc	ctgcctcagc	ctcccaagta	gctgggattg	540
taagagtatg	ccaccacgcc	cagctacttt	ttgtattttt	agtagagaca	gggtttcatc	600
atgttggtcca	ggatgggtctc	ttaactcctg	ccctcaaagt	gatccaccag	agaggagatc	660
ctcggcctnc	ccaagtgtcg	ggattatagg	catgagccac	cgtaccacgc	ctactttcta	720
attaattaaa	aaaaaannnn	nnnnaaaaaa	aacttnccaa	atgagctgat	aaaaacng	778

<210> 152
<211> 772
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 152						
gggcccntag	agctgtctga	cggccgccat	gtgatggata	tctgcagaat	tcgcccttag	60
cgtggtcgcg	gccgaggtag	catgctgact	tcttggtatc	ttttaaggcc	taattttccc	120
ttccttgaga	ttactgtagt	gtgttccagc	taatttctat	ttggaaacga	gttggaacag	180
ctgaaaacta	ggtattattg	aaggcaaagt	agcctcacgt	cagtttttta	tcagctcatt	240
tgggaagtgt	tttttttttt	tttttttttt	tttaattaat	tagaaagtag	gctgggtacg	300
gtggctcatg	cctataatcc	cagcacttgg	ggaggccgag	gatctcctct	ctgggtggatc	360
acttgagggc	aggagttaag	agaccatcct	ggccaacatg	atgaaaccct	gtctctacta	420
aaaatacaaa	aagtagctgg	gcgtggtggc	atactcttac	aatcccagct	acttgggagg	480
ctgaggcagg	agaatcactt	gaacctagga	agcagagggt	gcagtggggc	aagatcacac	540
cactatactc	tagcctgggc	ggcagagggt	gggaaaaaag	taggaccocct	gtcctatat	600
cagggttttc	tcacatatat	gaaccatctc	aaattctacg	ttgttaaagg	tagcttaagt	660
taattagtct	atacttattt	aagaccaata	tggggtgaga	tggatttttt	tttaaaaaat	720
cctacagtaa	ggnntttctac	tttccttcta	atgaggaaaa	angnggcaaa	at	772

<210> 153
<211> 780
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 153						
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ccagtgtgct	ggaattcgcc	cttagcgtgg	tcgcgggccga	ggtacttttt	tttttttttt	120
tttttttttt	tttagttaaa	gaatgcttta	ttaatacaaa	tacacacaaa	ctctgaagca	180
ctaagaaatt	taaatactta	tgtcacagca	aacaggtggc	aattcaacat	ccagggtcga	240
cagaatgctt	gaaggagact	gcaacagatt	ggattcccat	ggtggagagg	gcatnttcac	300
aggtgaaggg	gggcccagct	gaaacagctt	ttcaagctct	ctctcctcgt	caaggatcat	360
gagaggcact	ccactcaagg	ggaggtgcgc	aatctggtgc	tcttcaggca	ggtcaaaaact	420
ctcaaagtct	agaggattga	agggaaagaa	tttttctatt	tctggatagg	catcatctga	480
ggcaggaaca	gagctttttg	ctttaacagt	cttctcagtc	atcttttttg	cagaaaagct	540
tggctgtttt	tgtttgaggg	gtcccttggt	ctttacagac	ttttctgtag	ctctgttgac	600
agttcccaaa	gcctttctag	tagcttttagg	taaggctggt	ggggcatcga	acgttttgcc	660
aaaacgtggt	gttgaaactt	gagatctccc	atctaangct	ttgattgaan	gtccagaccc	720
cagcttcagc	ccatccttag	caaccacacn	ggtgcctggg	tctncatttt	ccttatnang	780

<210> 154
<211> 770
<212> DNA
<213> Homo Sapien

<220>

<221> misc_feature
<222> (1)...(770)
<223> n = A,T,C or G

<400> 154
gncctgttnna gctgctcgag cggccgccat gtgatggata tctgcagaat tcgccctttc 60
gagcggccgc ccgggcaggt acgcggggac cgcggcctca gatgaatgcg gctgttaaga 120
cctgcaataa tccagaatgg ctactctgat ctatgttgat aaggaaaatg gagaaccagg 180
caccctgttg gttgctaagg atgggctgaa gctggggtct ggaccttcaa tcaaagcctt 240
agatgggaga tctcaagttt caacaccacg ttttggcaaa acgttcgatg cccaccacgc 300
cttacctaaa gctactagaa aggcttttggg aactgtcaac agagctacag aaaagtctgt 360
aaagaccaag ggacccctca aacaaaaaca gccaaagcttt tctgccaaaa agatgactga 420
gaagactgtt aaagcaaaaa gctctgttcc tgcctcagat gatgcctatc cagaaataga 480
aaaattcttt cccttcaatc ctctagactt tgagagtgtt gacctgcctg aagagcacca 540
gattgcgcac ctccccttga gtggagtgc tctcatgatc cttgacgagg agagagagct 600
tgaaaagctg tttcagctgg gcccccttc acctgtgaag atgccctctt caccatggga 660
atccaatctg gtgcagtctc ttcaagcatt ctgtcgaccc tggatgttga attgccacct 720
gtttgctgtg acatagatat ttaaatttct tagtgcttca gaggtttgnng 770

<210> 155
<211> 767
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(767)
<223> n = A,T,C or G

<400> 155
acattatgac tgatacgcca gcttgggtacc gactcggatc cactagtaac ggccgcccagt 60
gtgctggaat tcgcccttag cgtggctcgc gccgaggtag gcgggcccgc tggataactg 120
ccctgggaca cagcagcggg aagccgcctg cagactgaac ctactgacc caggtggaaa 180
tcgttaggtc atttactgct aagcagccag atgaactctc cctgcagggtg gctgacgtcg 240
tcctcatcta tcaacgtgtc agcgtatggct ggtatgaggg ggaacgacta cgagatggag 300
aaagaggctg gtttccctatg gaatgtgcca aggagataac atgtcaagct acaattgata 360
agaatgtgga gagaatggga cgcttgctag gactggagac caacgtgtag tctctcagat 420
ggctctttgt tactgcaaga tttgcacgac acttaccggg ctggttggtt ctgggctagt 480
tttattgnta attttgtcac agcctattta attaaaagaa cgaaaacact tgcctttaag 540
cttgccagggt tgtttctgctc tctcatgaga agagcttggg tacagtgagt ttgcacagct 600
cagtttttac ctaaccacac acttgacgac ctntctgagg acctgcccgg gcggccgctc 660
gaaanggcga attctgcaga tatccatcac acttggcggn cgctcgaaca tgcattctaga 720
nggcccaatt cgnccatatg tgagtctgat tacaattcac tggncgc 767

<210> 156
<211> 827
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(827)
<223> n = A,T,C or G

<400> 156
attggggccc tagatgcatg ctgcagggcc gccagtgtga tggatatctg cagaattcgc 60
cctttcagac ggccgcccgc gcaggtagct caggaggtct gcaagtgtgt ggtaggtaa 120
aaactgagct gtgcaaaactc actgtatcca agctcttctc atgagagagc agaacaacct 180
ggcaagctta aaggcaagtg ttttcgttct ttttaattaaa taggctgtga caaaattaac 240
aataaaacta gcccagaacc aaccagcccgc gtaagtgtcg tgcaaatctt gcagtaacaa 300
aagaccatct gagagactac acgttggtct ccagtcctag caagcgctcc attctctcca 360
cattcttata aattgtagct tgacatgtta tctccttggc acattccata ggaaaccagc 420

ctctttctcc	atctcgtagt	cgttccccct	cataccagcc	attggctgac	acnttgattg	480
gatgaaggcc	ancttanncc	nactngcagg	gagaagtcaa	tttgnttgnt	taaccnntna	540
atgganccct	accnanttnc	acctggggtc	aagtgagggt	tcaagtctgc	angeggcttc	600
ccgctgctgt	ggtcccaagg	gcaaagttatn	cagcggggcc	cgcgttacct	tgggccgggg	660
accaacgcct	taangggccg	aaatttccaa	gcacacttgg	ccggcccggt	acctagtggg	720
atnccgaact	tcgggtaccc	aaagccttgg	gcgttaatca	atgggtcaat	aggcttggtt	780
tcctgggtgtg	naaaattggt	aatccgggtc	acaanttccc	cacaaca		827

<210> 157

<211> 818

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (818)

<223> n = A,T,C or G

<400> 157

aacactatga	cctgatacgc	cancttggtg	ccgntcggga	tccttagtaa	cggccgccag	60
tgtgctggaa	ttcgcccttt	cgagcggccg	ccgggcagggt	acataatctg	gaaatttatg	120
ttacaggtat	gcatatttgt	atatgaaaaa	tattaactga	gaaattactg	agcttcttag	180
caaaaaatat	aattatttca	gagatatgat	acagtttaat	atctgccttc	ctcaaaaagt	240
cagaaaaata	aaagttttta	attgcatata	ttttcatttc	ttacatatgt	cagaacactc	300
agaattttta	ataaaatggt	ttaaaacata	attataagtt	gttactttta	tttctatggt	360
tagtggaacc	cacagggtcc	tgtatctgat	taaatggagg	atatattagg	agaatttttt	420
agaagaatga	cacatgtgac	ataccaccat	atttgcaaga	aaatataact	tgatagtaga	480
gtaagttagc	tgttttata	gatgaattaa	aggcactagc	tcttagaaaa	aaaaggatta	540
aaatgctgac	ttcagtaata	atgtaaggag	ctctgctctt	taacatttcc	taattaggtg	600
taaaactatga	tgggaaggga	agggtggaatg	gaagtntcta	cntnttacca	ttggctttcn	660
ttcatgaaat	tggcaggnag	cctnccattt	cnnnaggnet	ttaatnaaaa	antttttccc	720
aacttttnct	tttcnaaaaa	ntnttnncc	nnatngnnaa	ctggnggtna	aaacccggct	780
tttttggggg	gaaancctac	ctggntnggg	naaaaaant			818

<210> 158

<211> 772

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (772)

<223> n = A,T,C or G

<400> 158

ntggggccnt	nnagcatgct	cgacggccgc	cagtggtgatg	gatatctgca	gaattcgccc	60
ttagcgtggt	cgcgcccgag	gtacttcaac	caccctcctc	acaaaactct	atacccttgt	120
catattaaaa	ttgtatgtta	tgccaggctt	ccctaataca	acaaaatctc	tgaataaaac	180
ctattaaata	tacaatttct	atcaacatgc	ctgccacaca	tgcttaataa	ttgcttagtg	240
aatacaagat	taatgcatga	gtgcctaagt	tacttcatct	agtataacaa	atgacaatat	300
ctcattttgt	tccegaagta	tccttattcc	attcaagctc	tgaagaaagt	attaatgata	360
ttcgtcctta	agtaattttt	tctgcattca	aatctcacca	ttcaaatgat	tttccaacag	420
tagtttcccc	aaaagcagtt	tacacagtta	catttggttat	aatttttgaa	agaaaagtgt	480
ggaaaatttt	attaagactc	tgaatgtagc	ttactgccaa	ttcatgaaga	aagcaatgta	540
atacgtagat	acttcattcc	acctttccct	tcacatagtg	ttataactaa	ttaggaaatg	600
ttaaagagca	gagctcctta	cattattact	gaagtcagca	tttatacttt	tttttctaag	660
agctagtgcc	tttaattcat	catataaagc	agctaactta	ctctactatc	aagttatatt	720
ttcttgcaaa	tatggtggta	tgtcacatgt	gtcattcttc	taaaaaattc	tg	772

<210> 159

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 159

ttgggnaaaa	ttttaaaccg	gcccccccaa	angncccttt	ttgggggntt	aaaccccccg	60
gnaangcccc	tttcgggggg	gggaaattcc	ccccaaccct	ttaaagggtt	aaaaacccgg	120
gggcncnccg	gccccccaaa	ggtttgggtt	tgggcccctt	ggggggaaaa	aattttttcc	180
gggccccccc	ntttttaaag	gccgggttgg	ggggtttccc	gggcccgggg	gccccccgga	240
aaagggggtt	aacccccttn	aatttttttn	gggtttttcc	cccccaaatn	gggtttccaa	300
tttttttttt	tttaaaaaac	ccaaaanggg	aaaaaaaggg	gttggcccaa	aatttaaggg	360
cctttccttc	aaaagggttt	cctttgggaa	aaaaaaacct	tgggttgggg	gaaaagggtt	420
ncccaaaaat	ttaaacctgg	gaaaaccttc	tttgggnaac	ccactttaaa	aatttaaaant	480
taaaanttaa	tttaaattta	aanttaagga	atgggnttgg	aaaaaaaaag	gaatattccn	540
ttaatattgg	cttaattttt	taatttgntn	atttgactgg	tnatgnnttt	acttttnaaa	600
aacntnctnn	ccaaaaacca	attttacntg	gncnngtggg	atttaccntn	ttcnattacc	660
ngggagttaa	cccaactnga	acntttngga	gggnccagtc	ctccataggg	acctccntca	720
ntntgatnc	caactgcaag	ttcagggaag	ttctcacatc	ccccttgggc	natatatctc	780
tttaaaagcn	cctcacagca	ctcactgaan	tctattatat	tatagatang	gtntattatg	840
ggaaaanggt	nacanntcaa	natnncccaa	cgcggggana	cacannngnc	agngcccgat	900
gatnttccna	nacacagant	ttggtgttct	ctggagncgt	ttccccnta	gnaaaatggt	960
gacacntgga	cagagttttt	acccccaggg	gaacgtnaat	caatctttgg	aagtttcaaa	1020
tcag						1024

<210> 160

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(771)

<223> n = A,T,C or G

<400> 160

gggcctctnn	agcatgctcg	agcgcccgcc	agtgtgatgg	atatctgcag	aattcgccct	60
ttcgagcgcc	cgccccggca	ggtactgtaa	gttattttct	tccttatctc	ccaatgacac	120
tgttttctac	atgaaaaata	ccattttggc	tttatcaaca	tgttattaat	tcataatatg	180
agagatctat	cagcactatt	tgtaaaaaata	ttcaattaaa	aaaattaaga	tgatttatag	240
ttgtgtggta	agaattttga	ccttacccaa	aggaggtcag	gcttttgccc	tcagccttaa	300
ggagataatc	ttgtcatacc	caataaaagt	gttattttta	agtgaggctg	actacacctg	360
ataatccagc	ttgagggaca	gttatgccag	tttgaccaac	tagatgattt	agggagcttt	420
ctctcccaac	ttcaaagctg	tgatgaatca	aacaggtaat	taatcgatca	tgcttatgta	480
atgaagcctt	gattgaaact	tcaaagattg	attgacgttc	cttggttggg	aatactctgt	540
catgtgtcaa	ttctagaagg	gtaatacgtc	ctgaggataa	cagaagctct	gtgtttggaa	600
tcatectgga	ctctgcactt	tgnttctcct	gctttggctg	attttgatct	gtaaccttta	660
cctataataa	accataacta	taatataata	gatttcagtg	agtgctgtga	ngctttctag	720
tgattttattg	aacctaaggg	tggtatgtgag	aatttnctga	acttgcagtt	g	771

<210> 161

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(771)

<223> n = A,T,C or G

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<400> 161
acncttgacc tgatcgccag cttggtaccg actcggaccc tagtaacggc cgccagtggtg 60
ctggaattcg cccttagcgt ggtcgcgccg cgaggtagac aatttattat gaaatagctt 120
aatggcaagt ggtaatttag aagaatttag ttatcagata ggagatatat taaaatattt 180
aaaaattgga tatattcttg aagccctttt acacaagtaa tttctataat ttgattgttaa 240
tgaaagtata atataccttg ttactattat cagattaatt tttgaaagta gaattcctta 300
atcaagccaa ggttatgctg ctttataaga aattaatcag gtagtttaac actagagctc 360
attagccaac ctgtatgtag cacaaaataa tcatctctga taaataccta taaatatatt 420
ttattcatat ttttaaatat tttaacaattc aaataaaaac cttatatgta gacaatctgg 480
gctaaatttc catgtatggt ttgaaaaata atgttagcat gaatagattc atatttaaat 540
atgattttta atactcttaa tagaggagac ataagaaata tttacataaa agctaagtag 600
catgatacag ctcattggtt ttttctctat aggaaaacaa ttacttgatt ttttttgcga 660
taggattaaa gactgagtat cttttctaca ttcttttaac tttctaangg gcacttctca 720
aaacacagac caggtagtaa atctncaactg ntctaaggtc tcacccact t 771

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<210> 162
<211> 768
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

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<400> 162
gggcccctnn agctgctcgn cggccgcccag tgtgatggat atctgcagaa ttcgccctta 60
gcgccgccc gggcaggtac tacaaaaaca gaataatttt gaagttttag aataaatgta 120
atatatttac tataattcta aatgttttaa tgcttttcta aaaatgcaaa actatgatgt 180
ttagttgctt tattttacct ctatgtgatt atttttctta attgttattt ttataaatca 240
ttattttctt gaaccattct tctggcctca gaagtaggac tgaattctac tattgctagg 300
tgtgagaaag tgggtggtgag aaccttagag cagtggagat ttactacctg gtctgtgttt 360
tgagaagtgc cccttagaaa gttaaaagaa tgtagaaaag atactcagtc ttaatcctat 420
gcaaaaaaaa atcaagtaat tgttttctta tgaggaaaat aacctgagc tgtatcatgc 480
tacttagctt ttatgtaaat atttcttatg tctctctat taagagtatt taaaatcata 540
tttaaatatg aatctattca tgctaacatt atttttcaaa acatacatgg aaatttagcc 600
cagattgtct acatataagg tttttatttg aattgtaaaa tatttaaaag tatgaataaa 660
atatatttat aggtatttat cagagatgat tattttgtgc tacatacagg ttgggctaata 720
gagctctagt ggtaaactac ctgataattt cttataaagc agcatacc 768

```

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<210> 163
<211> 776
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(776)
<223> n = A,T,C or G

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<400> 163
nantatgacc tgatacgcca acttggtacc gactcggatc cactagtaac ggccgcccagt 60
gtgctggaat tcgcccttag cgtggtcgcg gccgaggtac tcttcgcag aggggaaggct 120
gtagaagtct ttgcaagctt catacagaga aatacaaaaag gtgtgatgcc attaactggt 180
cctttctaaa gcattaggaa ttttagtgaat ctctcaaaaca caaaactgaa aagccatttg 240
aacaaatctc atatacttgt agataagctt ttttttattt aaagcataca aattcaaate 300
tttcaagcag aaaattcagt caagttagat ccattgggtg tttgagttca aagtcagtga 360
gcaaatggaa atcattgcgg catctctctc atttccctag tggacattag accactcaaa 420
atgtgtcaca taatttacag ccccttggtg gtaattgaat atacacgttg agagtgcact 480
ggcagaacac ttaagaaaga ttgaatgcag gaggaccagc ttacgttatt tttggctcta 540
ctctgggttt tgcttttaat gtttttctt gagattaatt tcaattgggt tgttccatcc 600
tattcaaaaca aatgctttga gagaagagat gaacagcagc atcaaaataaa attgtgatat 660

```

```

ttagtttnag agacatcang tgttgtaatc aaataagaca gaanggccaa gttaaaatct 720
gtgattngca taaatgaatt taactgttag aatagcanaa ttgagaggtg gattan 776

```

```

<210> 164
<211> 773
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (773)
<223> n = A,T,C or G

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<400> 164
cgggcctcta gatgctgctc gacggccgcc atgtgatgga tatctgcaga attcgccctt 60
tcgagcgccg cccgggcagg tacacagtgg ataccacata ctgctctga ggaagaagga 120
ggaggagaaa gaggagaagg aaggaaattt tcaaatagaca atttctatca ggactcattt 180
tcctattata agttcagaat acttggacgt ctttataaaa tcaagttgaa atctctacta 240
ttttgatctg tattctctta aatattaaag gttataccta gggagattcc atgttgactg 300
gcaaacaaaag cataccattt taagaataaac tcttcataaa atagtgtgct aagaattaaa 360
agtgtctagt aacagatata caaaagagag atttagaata attaatattt aaagacagat 420
aattttaatg tttcacactt ttaactacaa aattctttgt tttcctaaat attagcaaaa 480
atgttatata ttaaaataaa tcttgaaaat ctcaccctac atttagataa tagttcaaaa 540
gtcatattgc taatctacct ctcaattctg ctattcttac agcttaaatt catttatggc 600
aaatcacaga ttttactttg tcttctgtgc ttatttgatt acaacacctg atgtctctga 660
aactaaatat ccaatttatt tgatgctgct gttcatctct tctctcaaag cattngtttg 720
aatangatgg aacaacccaa ttgaaattaa tctcaaggaa aaacattaaa ant 776

```

```

<210> 165
<211> 783
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (783)
<223> n = A,T,C or G

```

```

<400> 165
tnnnnnacac tatgacctga ttacgccanc ttggtaccga ctgggatcca ctagtaacgg 60
ccgccagtgt gctggaattc gcccttagcg tggtcgcggc cgaggtacag taggaaaata 120
agaataacaa cgggcaaaaat ctttttagaa catttatgct ttatctgttt tagcttctaa 180
aacaatcctg aaggatgaat aattatcatg agtatagcag aatttaattt tccctgttgc 240
tccaaaattt taatgaaaac tttacggttg agagaaatag gtaaaataaaa aaacttccta 300
aaattctaaa gacaattgtt gaataaaaatt taagtgaatg agtttgtgct tcatatttaa 360
cttttaactt tccaataggc tttattaaat ggaaaactga aatttacaaa gtcttagagt 420
agaagcattt ttatcctggc tagggattct ctaagagaac cagtagcacc aagatgcact 480
ggaacagtgc aacgagagag ttcatgcctt aggggtttaga agcatacaag caaagggaat 540
ggtgcccact tcttactaga aaaatttcac aggctggagt ctgggcggag gagcctggga 600
tgacagtaga agtgtgcagg aagcactaag tctagcctgt acctgccgg gcggccgctc 660
gaaaggcgaa ttctgcagat atncatcaca ctggccggcc gntcgagcat gcatntagag 720
ggcccaattc gcctatagtg ancgtattac aattcactgg ccgcgtttta caacgtnnng 780
cnn 783

```

```

<210> 166
<211> 775
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (775)

```

<223> n = A,T,C or G

<400> 166

attgggctc	tnnagcatgc	tcgagcgccc	gccagtgtga	tggatatctg	cagaattcgc	60
ccttcgagcg	gccgcccggg	caggtacagg	ctagacttag	tgcttcctgc	acacttctac	120
tgatcatcca	ggctcctccg	cccagactcc	agcctgtgaa	atctttctag	taagaagtgg	180
gcaccattcc	ctttgcttgc	atgcttctaa	accctaaggc	atgaactctc	tcgttgccact	240
gttccagtgc	atcttggtgc	tactggttct	cttagagaat	ccctagccag	gataaaaaatg	300
cttctactct	aagactttgt	aaatttcagt	tttccattta	ataaagccta	ttggaaagt	360
aaaagttaaa	tatgaagcac	aaactcattc	acttaaattt	tattcaacaa	ttgtcttttag	420
aatttttagga	agttttttta	tttacctatt	tctctcaacc	gtaaagtttt	cattaaaatt	480
ttggagcaac	agggaaaatt	aaattctgct	atactcatga	taattattca	tccttcagga	540
ttgttttaga	agctaaaaca	gataaagcat	aaatgttcta	aaaagatttt	gcccggtgtt	600
attcttattt	tcctactgna	cctcgccgcg	gaccacgcta	agggcggaatt	ccagcacact	660
ggcgcccggt	actagtggat	ccgagctcgg	taccaanctt	ggcgtaatac	tggtcatagc	720
tggttcctgt	gtgaaantgt	atccgntcac	aattcacaca	acatacganc	cggag	775

<210> 167

<211> 797

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(797)

<223> n = A,T,C or G

<400> 167

ttgnaacnat	tntgacctga	ttacgccaac	ttggtaccga	gctcggatcc	actagtaacg	60
gccgccagtg	tgctggaatt	cgcccttagc	gtggctcgcg	ccgaggtact	ttcagaaggt	120
aaatcagtag	atcaccatg	tgtatctgca	ccttctcaac	tgagagaaga	accacagttg	180
aaacctgctt	ttatcatttt	caagatgggt	atttgtagaa	ggcgaggaac	caattatgct	240
tgtattcata	agtattactc	taaagtgttt	gtttttgtaa	ttctgactaa	gaccttttaa	300
ccatggttag	ttgctagtac	ccttccttgt	ccgaaggagc	tgaccagtat	tgatgagaga	360
gtccaggcag	ctcctgaagt	tcagctggta	gtttgttctc	tgaacatttg	gtctcttgaa	420
ggcacagtat	atctggggct	tcttccttta	cccaatctaa	tcctttcttc	ttaatccagg	480
ctcgaagccc	atncacattc	caagagcaga	tcttgagtgt	ggcaggtttg	ccactgggtg	540
aggttttctg	atctgggggg	tcctcataca	gggctggggc	cctntcctgc	tgccctcttg	600
tcattttctt	tgccggccgt	cttactcttc	ttggcctctg	gcttctgtcc	tgagctcatc	660
cccgctcttc	ggccaccngt	tccccttttt	tacacgcctt	cggcatttcc	cgttaccgaa	720
cgcccttttg	gcagctgtac	ctgcccngg	cgcccgttcg	aaaaggcena	attcttgtag	780
aatttccatc	ncaccnn					797

<210> 168

<211> 780

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(780)

<223> n = A,T,C or G

<400> 168

acantatgac	ctgatacgcc	aacttggtac	cgactcggat	ccactagtaa	cggccgccag	60
tgtgtcggaa	ttcgccctta	gcgtggctgc	ggccgaggta	ctccggctcg	tgctcagcagc	120
acggcgcat	gaacattgca	atgtggagcc	caaaccacag	aaaatggggg	gaaattggcc	180
aactttctat	taacttatgt	tggcaatttt	gccaccaaca	gtaagctggc	ccttctaata	240
aaagaaaatt	gaaaggtttc	tcactaaaacg	gaattaagta	gtggagtcaa	gagactccca	300
ggcctcagcg	tacctgcccg	ggcgcccgct	cgaaagggcg	aattctgcag	atatccatca	360
cactggcgcc	cgctcgagca	tgatcttaga	gggcccgaat	cgccctatag	tgagtcgtat	420
tacaattcac	tggccgctcg	tttacaacgt	cgtgactggg	aaaaccctgg	cgttacccaa	480

cttaatcgcc	ttgcagcaca	tccccctttc	gccagctggc	gtaatagcga	agaggccccg	540
accgatcgcc	cttcccaaca	gttgcgccgc	ctgaatggcg	aatggacgcg	ccctgtaacg	600
gcgcattaag	cgcgcggggt	gtgggtggta	cgcgcgagcg	gacccgtaca	cttgccagcg	660
ccctancgcc	cgctnctttc	gctttcttcc	ctttctttct	tngcacgttc	gccggctttt	720
cccgctcaagc	tctaaatcgg	gggctccttt	tanggttccg	atttantgct	ttacngnacn	780

<210> 169
<211> 771
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(771)
<223> n = A,T,C or G

<400> 169						
gggcnctng	agcatgctcg	acggccgcca	tgtgatggat	atctgcagaa	ttcgcccttt	60
cgagcgccg	ccccggcagg	tacgctgagg	cctgggagtc	tcttgactcc	actacttaat	120
tccgtttagt	gagaaacctt	tcaattttct	tttattagaa	gggccagctt	actgttggtg	180
gcaaaattgc	caacataagt	taatagaaag	ttggccaatt	tcacccatt	ttctgtgggt	240
tgggctccac	attgcaatgt	tcaatgccgc	gtgctgctga	caccgaccgg	agtacctcgg	300
ccgcgaccac	gctaagggcg	aattccagca	cactggcggc	cgttactagt	ggatccgagc	360
tcgggtacaa	gcttggcgta	atcatggtca	tagctgtttc	ctgtgtgaaa	ttgttatccg	420
ctcacaaatc	cacacaacat	acgagccgga	agcataaagt	gtaaaagcctg	gggtgcctaa	480
tgagttagct	aactcacatt	aattgcgttg	cgctcactgc	ccgctttcca	gtcgggaaac	540
ctgtcgtgcc	agctgcatta	atgaatcggc	caacgcgcgg	ggagaggcgg	tttgcgtatt	600
gggcgctctt	ccgcttnctc	gctcactgac	tcgctgcgct	cggtcgctcn	gctgcggcga	660
gcgggtatcaa	gctactcaaa	ggcngtaata	ccgntatcca	cagaatcagg	ggataacgca	720
ggaaagaaca	ttgtgagcaa	aaggcancaa	aagggcagga	accgtaaaaa	n	771

<210> 170
<211> 777
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(777)
<223> n = A,T,C or G

<400> 170						
acacttgacc	tgatacgcca	acttggtacc	gagctcggac	cactagtaac	ggccgccagt	60
gtgctggaat	tcgcccttag	cgtggctcgc	gccgaggtag	acagaatagc	tgagcagttc	120
acttcaggga	tcaggtcac	tctgctcctc	ctagtttcac	catgttctgg	caataaaaaa	180
cacatattat	atcctgggtt	tctctatcct	tgcattacta	aggtgactgt	ctctctttat	240
acatccttgt	atggttctcc	cagtattagc	aagattgtat	atctgtaaag	aatgtccagt	300
tttgtaaata	tttccctgcc	tttttttttc	tttttttaca	tctgatttta	atgcttcggt	360
aacttcaaaa	ggaactggta	gagttcagaa	ggtgagctgt	tgtttttcta	aacctcttcc	420
caggaagggg	acattgacac	ttgaattttt	gtcacctttt	tcctcattag	aaggaaagta	480
gaaagcctta	ctgtaggatt	tttaaaaaaa	aatccatctc	accccatatt	ggtcttaaat	540
aagtatatag	taattaacct	aagctacctt	taacaacgta	gaatttagat	gggttcatat	600
atgtgagaaa	aacctgaata	taggacaggg	gtcctacttt	tttccccacc	tctgtcgccc	660
aggctagagt	atagtgggtg	gatcttggcc	cactgnaacc	tctgcttcc	anggtcaagt	720
gattcttctt	gcctcacctt	ccaagtagct	gggattggaa	gaatatgccn	ccccccg	777

<210> 171
<211> 782
<212> DNA
<213> Homo Sapien

<220>

<221> misc_feature
 <222> (1)...(782)
 <223> n = A,T,C or G

<400> 171
 nngggcccnt agagcatgct cgacggccgc cagtgtgatg gatatctgca gaattcgccc 60
 ttctgagcgg ccgcccgggc aggtactttt tttttttttt tttttttttt tttaattaat 120
 tagaaagtag gctgggcacg gtggctcatg cctataatcc cagcacttgg ggaggccgag 180
 gatctcctct ctggtggatc acttgagggc aggagttaag agaccatcct ggccaacatg 240
 atgaaacctt gtctctacta aaaatacaaa aagtagctgg gcgtgggtggc atactcttac 300
 aatcccagct acttgggagg ctgaggcagg agaatacactt gaacctagga agcagagggtt 360
 gcagtggggc aagatcacac cactatactc tagcctgggc gacagagggtg gggaaaaaag 420
 taggacctct gtcctatatt cagggttttc tcacatatat gaacctatct aaattctacg 480
 ttgttaaagg tagcttaggt taattagtct atactttattt aagaccaata tggggtgaga 540
 tggatttttt tttaaaaatc ctacagtaag gctttctact ttccttctaa tgaggaaaaa 600
 ggtgacaaaa attcaagtgt caatgtcccc ttcctgggaa gaggtttaga aaaacaacag 660
 ctacacctct gaactctacc agttcctttt tgaaagttaa ccgaagcatt aaaatcagat 720
 gttaaaaaag aaaaaaaaaa ggcngggaaa atatttacaa aactgggaca ttctttacag 780
 an

<210> 172
 <211> 773
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(773)
 <223> n = A,T,C or G

<400> 172
 canttgacct gatacgccaa cttggtaccg actcggacca ctagtaacgg ccgccagtgt 60
 gctggaattc gccctttcga gcggccgccc gggcagggtac catcctgtgg ctccttaagg 120
 agggcttctct ctttaattct ccatgaggca tccagggtgg tctgggctat gggagaagacc 180
 cttcaacttg ggagtagaca ggtgctccaa ttcatagtgc ccattctcag aggccttggtg 240
 tgtgagtttc tccttcatgc ctctctcttg gctcttcttg tgctccataa tctgctggag 300
 ctggtgcccc gcatagtctg gcttgggtgt cagcgggcca gccggcacag ctacaccaag 360
 gacatctgac accatgtagg ggccgagcca gccaccaag ggagtgtctc cggggctgta 420
 gtgggtctgt ttgtggtaga agagaagtcc atctacctca aaagggaat ccatagatag 480
 cacatcacac aggccttccg gagtgcaagg gaagttcttt agccccacaa atttaaaagg 540
 attaaagctg gttttctctc ccagtccttc ttctctggtt aactttgaat gcatccagta 600
 gaatcgaaaa tcaagtctgg caatcataaa aagggtgtcc ccgccagcac atcacattca 660
 gaacgtagta ggtctggttt acctcattgt aaatgcaatc tagaatggtg taagcttttg 720
 ctgntgaagt ttccctgtgc ctctggcaga atgaagaaan ctggtgacac aac 773

<210> 173
 <211> 772
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(772)
 <223> n = A,T,C or G

<400> 173
 ntgggcctct nnagctgctc gacggccgccc atgtgatgga tatctgcaga attcgccctt 60
 agcgtgggtc cgcccgaggc acagttcctt ggagcagagt gagcgccgcc ggaggttact 120
 ggaactgcag aaatccaagc ggctggatta tgtgaacat gccagaagac tggctgaaga 180
 tgactggaca gggatggaga gtgaggaaga aaaataagaa agatgatgaa gaaatggaca 240
 ttgacactgt caagaagtta ccaaaacact atgctaatac attgatgctt tctgagtggg 300
 taattgacgt tccttcagat ttggggcagg aatggattgt ggtcgtgtgc cctgttgaa 360

aaagagccct	tatcgtggcc	tccaggggtt	ctaccagtgc	ctacaccaag	agtggctact	420
gtgtcaacag	gttttcttca	cttctgccag	gaggcaacag	gcgaaactca	acagcaaaaag	480
actacaccat	tctagattgc	atttacaatg	aggtaaacca	gacctactac	gttctggatg	540
tgatgtgctg	gcggggacac	cctttttatg	attgccagac	tgatttccga	ttctactgga	600
tgcatcctaaa	gttaccagaa	gaagaaggac	tgggagagaa	aaccaagctt	aatcctttta	660
aatttggtggg	gctaaagaac	ttcccttgca	ctcccgaag	cctgtgtgat	gtgctatcta	720
tggatttctt	tttgaggtag	atggacttct	cttctaccac	aaacagaccc	ac	772

<210> 174

<211> 780

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(780)

<223> n = A,T,C or G

<400> 174

acactatgac	ctgatacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgcc	60
agtgtgctgg	aattcgccct	tagcgtgggc	gcggccgagg	tacaaaaata	cattttttcca	120
catacaaaaag	agagaaaaaa	acaaagacat	gtggcgggtg	gcgaggggag	gcccattccc	180
aacaccctac	aaggttccat	ggaatggaga	aggaacaaaa	aaatcccaa	ttattttggg	240
gtaagatgtg	ccccagaaaa	ggtgaaatct	atgcaataaa	acccagggtt	tcttcaaatc	300
tagcatctag	gatttctatc	agagtttcaa	ataatcagaa	tttctatcag	aatttctacc	360
ctgaggtgac	acctactaac	tgtaggttct	ttcattaaaa	atgaagacat	ctttcaccag	420
aatgtatcaa	gctataaaac	tggcttcaga	gcctacactt	agccagagt	gaaaaaaaaat	480
agtgcataatt	ttcgacagca	attttgaatt	gatgcttgag	gtctcaatcc	accagcaccc	540
agatatcatg	ttacctccct	cagttgaata	caagttaaaa	tgatgatctt	atcgagatct	600
caatagagca	cagtgccttt	catgtttcgg	gtaagaaggt	gggaggagga	atgaagccgg	660
gtattacacc	cagcccaatg	acagcttaag	ccttaacatg	cnggcattct	acaatgacca	720
taaacaaagg	angggccaag	canggctngc	gatcattact	ttgcgcacag	aatgccatgt	780

<210> 175

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(771)

<223> n = A,T,C or G

<400> 175

gggcctctag	agcatgctcg	agcggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
tcgagcggcc	gccgggcagg	tactaaaaca	gctttgctta	tggtggccag	gggaaaacat	120
ggcattctgt	gcgcaaagct	aatgatcgcc	agccctgcct	tgcccctcc	cttggttatg	180
gtcattgtaa	gatgcccgc	tggttaaggct	taagctgtca	ctgggctggg	tgtaataccc	240
gcttcattcc	tcctcccacc	ctcttaccgc	aaacatgaag	ggcactgtgc	tctattgaga	300
tctcgataag	atcatcattt	taacttgat	tcaactgagg	gaggtaacat	gatattctgg	360
tgctgggtga	ttgagacctc	aagcatcaat	tcaaaattgc	tgctgaaaat	atgcactatt	420
ttttttccac	tctggctaag	tgtaggtctt	gaagccagtt	ttatagcttg	atacattctg	480
gtgaaagatg	tcttcatttt	taatgaaaga	acctacagtt	agtaggtgtc	acctcagggt	540
agaaaattctg	atagaaattc	tgattatttg	aaactctgat	agaaatccta	gatgctagat	600
ttgaagaaaa	cctgggtttt	attgcataga	tttcaccttt	tctggggcac	atcttaccct	660
aaaataattg	gggatttttt	tgntccttct	ccattccatg	gaaccttgta	gggtgtttgg	720
gattgggcct	tcctngcca	cccgccacat	gtctttggtt	ttttctctct	t	771

<210> 176

<211> 773

<212> DNA

<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (773)
<223> n = A,T,C or G

<400> 176
atnnggcctc tagagcatgc tcgagcggcc gccatgtgat ggatatctgc agaattcgcc 60
cttagcgtgg tcgcgccgga ggtactcatg tatttttttt tttttccaga tctctttccc 120
caagttgcta ttgtaagagt attctgctgc gtgtggatgc agttatacac attaaagcag 180
atctggagtc tgaagtagct ataaagcagc tataaaacag aaatacatgc atagctgcag 240
aaaccatgat aggtagagga cttttctttt gggtttgttt tggtttgttt tggtttgttt 300
ttggttttac agagaagaga tttttattac aaagaaaaaa attccagtga attgtgcaga 360
aatgctgggt tttacaccat cctaaagaaa aactttacaa gggtgttttg gtagtagaaa 420
aagggtataa agttggaatc ttaaattgta aaattaacca ttgagtgtca aagttctaaa 480
agcagaactc attttgtgca atgaacataa ggaaagacta ctgtataggt ttttttttcc 540
tcctttttaa tgaagaaaag ctttgcttaa gggttgcata cttttattgg agtaaatctg 600
aatgatccta ctcctttgga gtaaaactag tgcttaccag tttccaattg tatttagctt 660
ctggttgga tttgaaaaaa aaagaaaaaa agaaaaagaa aacctaaata aaataggtga 720
aagtccctg actattcagg tgaatacnca aaaaanaaan nnnnnnaann nnt 773

<210> 177
<211> 772
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (772)
<223> n = A,T,C or G

<400> 177
acattngacc tgatacgcca gcttgggtacc gagctcggat ccactagtaa cggccgccag 60
tgtgtcgga ttcgccctta gcgtggctgc ggccgaggta cagtaggaaa ataagaataa 120
caacgggcaa aatcttttta gaacatttat gctttatctg ttttagcttc taaaacaatc 180
ctgaaggatg aataattatc atgagtatag cagaatttaa ttttccctgt tgctccaaaa 240
ttttaatgaa aactttacgg ttgagagaaa taggtaaaata aaaaaacttc ctaaaattct 300
aaagacaatt gttgaataaa atttaagtga atgagtttgt gcttcatatt taacttttaa 360
ctttccaata ggctttatta aatggaaaac tgaaatttac aaagtcttag agtagaagca 420
tttttatcct ggctagggat tctctaagag aaccagtagc accaagatgc actggaacag 480
tgcaacgaga gagttcatgc cttanggttt agaagcatac aagcaaaggg aatgggtgcc 540
acttcttact agaaaaattt cacaggctgg agtctgggag gaggagcctg ggatgacagt 600
agaagtgtgc aggaagcact aagtctagcc tgtacctgcc cgggcggncg ctcgaagggc 660
gaattctgca gatatccatc aactggcgg ccgctcgagc atgctctana gggcccaatt 720
cgccctatag tgagtcggat tacanttnaa tggccgncgt tttacaacgt cc 772

<210> 178
<211> 770
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (770)
<223> n = A,T,C or G

<400> 178
attgggcccc tnnagcatgc tcgngcggcc gccagtgtga tggatatctg cagaattcgc 60
ccttcgagcg gccgcccggg caggtagagg ctgacttag tgcctcctgc acacttctac 120
tgtcatccca ggctcctccg ccagactcc agcctgtgaa atttttctag taagaagtgg 180
gcaccattcc ctttgcttgt atgcttctaa accctaaggc atgaactctc tcgttgcaact 240
gttccagtc atcttggtgc tactggttct cttagagaat ccctagccag gataaaaaatg 300

```

cttctactct aagactttgt aaatttcagt tttccattta ataaagccta ttggaaagtt 360
aaaagttaaa tatgaagcac aaactcattc acttaaattt tattcaacaa ttgtcttttag 420
aatttttagga agttttttta tttacctatt tctctcaacc gttaaagtttt cattaaaatt 480
ttggagcaac agggaaaatt aaattctgct atactcatga taattattca tccttcanga 540
ttgttttaga agctaaaaca gataaagcat aaatgttcta aaaagatttt gcccgttggg 600
attcttattt tcctactgta cctcggccgn gaccacgcta agggcgaatt ccagcacact 660
ggcgccgnt actagtggat ccgagctcgg tacccaanct tggcgtaatc atggnccatag 720
ctgttcctgn gngaaatngn natncgntna caattncac acatacnann 770

```

```

<210> 179
<211> 502
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(502)
<223> n = A,T,C or G

```

```

<400> 179
cnnnttgacn tgattcgcca acttggtacc gagctcggat ccctagtaac ggccgccagt 60
gtgctggaat tcgcccttag cgtgggtcgcg gccgaggtag ctggcccca acttctcgaa 120
taaaatgaaa ctatgattct tggcctcact cactaccatg tgacattgat caaatcactt 180
cacctctcca aacctcagag tctttatctg taagatggaa aaagtaacac ctacttcagg 240
ggctgtcatg aggattaaat aaatgtgccc agcaggtagt aagtatacaa cacaaagcat 300
ctaattggtc attcatatcat ttgcttattt tgcaattatt ggccacctgc caatgttggg 360
cactgttcta ggcacagggg atacagcaag ggcaaaccac taactactgg tggaggggaag 420
acgataaaca aatacgtaaa gatttgtgcc aggtagtgat aaaagcaaag aatgactcat 480
ggagaggggtc agctggggag ac 502

```

```

<210> 180
<211> 823
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(823)
<223> n = A,T,C or G

```

```

<400> 180
gggccttnna gcatgctcga cggccgccat gtgatggata tctgcagaat tcgccctttc 60
gagcggccgc ccgggcaggt actgcgtggt ctccccagct gacctctcc atgagtcatt 120
ctttgctttt atcactacct ggcacaaatc tttacgtatt tgtttatcgt ctteccctcca 180
ccagtagtta ggtgtttgcc cttgctgtat ccctgtgccc tagaacagtg cccaacattg 240
gcaggtggcc aataattgca aaataagcaa atgtatgaat gaaccattag atgctttgtg 300
ttgtatactt actacctgct gggcacattt atttaatect catgacagcc cctgaagtag 360
gtgttacttt ttccatctta cagataaaga ctctgagggt tggagagggtg aagtgatttg 420
atcaatgtca catggtagtg agtgaggcca agaatacatg tttcatttta ttcgagaagt 480
tggggggccag gtacctcggc cgcgaccacg ctaagggcga attccagcac actggcggcc 540
gttactagtg gatccgagct cggtagcaag cttggcgtaa tcatggtcat agctgtttcc 600
tgtgtgaaat tgttatccgc tcacaattcc acacaacata cgagccggaa gcataaagtg 660
taaagcctgg ggtgcctaata gagtgagcta actcacatta attgcgttgc gctcactgcc 720
cgcttttcag tcgggaaacc tgcgtgcca gctgcattaa tgaatcggcc aacgcgcgg 780
gaaaagcngn ttgcgtattg gggcgtctt ncgctttctt gcn 823

```

```

<210> 181
<211> 501
<212> DNA
<213> Homo Sapien

<220>

```

<221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 181
 cantatgacn tgattcgcca acttgggtacc ngctcggtac cctagtaacg gncgccattg 60
 tncctggaatn cgncccttagc gtggtcgcg cagaggtact ttcttcnttt nctnnaattt 120
 tccataaacct agtgcengnt tgatnccctc acatggntgg ttcacatncn cngtacagan 180
 gncgcgncac catggganag ggcagcactc ntnccttctn angggatctt ggcctaangg 240
 tgtacnaagg gagangatgg antntcttct gncctcncta nggcctaggg aacccagnag 300
 canatcccac nacnccttctn atnttttnagc caaggagaag ccccttggtg acnttnagtt 360
 ccaaccatta tacncagtg gagaatggat nntcctggtc ccaaccatta cagggtgaag 420
 atatnaacag ttaaggaga tacagtttng atgaggcctc anganggagc agntnacacc 480
 atcatannca tatgcaggga a 501

<210> 182
 <211> 830
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(830)
 <223> n = A,T,C or G

<400> 182
 ggcccttnga ngcatgctcg acggccgcca tgtgatggat atctgcagaa ttcgcccttt 60
 cgagcggccg cccgggcagg tacacgagaa gctccgagga tggctgaagt ccaacgtctc 120
 tgatgcggtg gctcagagca cccgtatcat ttatggaggc tctgtgactg gggcaacctg 180
 caaggagctg gccagccagc ctgatgtgga tggcttcctt gtgggtggtg ctccctcaa 240
 gcccgaaatc gtggacatca tcaatgccaa acaatgagcc ccatccatct tccctaccct 300
 tcttgccaag ccagggaacta agcagccagc aagcccagta actgcccttt ccttgcatat 360
 gcttctgatg gtgtcatctg ctcttctctg tggcctcatc caaactgtat ctctctttac 420
 tgtttatata ttcacccctg aatggttggg accaggccaa tcccttctcc acttactata 480
 atggttgga ctaaacgtca ccaaggtggc ttctccttgg ctgagagatg gaaggcgtgg 540
 tgggatttgc tcttggttgc cctaggccct agtgagggca gaagagaaac catcctctcc 600
 cttcttacac cgtgaggcca agatcccctc agaangcang agtgcttgcc ctccccatgg 660
 tgcccggtgc tcttggtgct ngatatgtga ccaccccatg tgagggaata aacctggcac 720
 tangtctttg aaaaaaanaa aaacntnaaa aaaantccct tcggccgnga ccacgctaag 780
 gnccaatcc ancacaatgg gcgnncgtna ctantggatc caaccttnt 830

<210> 183
 <211> 484
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(484)
 <223> n = A,T,C or G

<400> 183
 ttgacatgat acccaacttg taccgagctc ggatccacta gtaacggccg ccagtgtgct 60
 ggaattcgcc ctttcnagcg gccgcccggg caggtacccc agcccgcgcc actgagtttg 120
 ccttctatcc gggatatccg ggaacctacc agcctatggc cagttacctg gacgtgtctg 180
 tgggtgcagac tctgggtgct cctggagaac cgcgacatga ctccctgttg cctgtgggca 240
 gttaccagtc ttgggtctct gctgggtggc ggaacagcca gatgtgttgc cagggagaac 300
 agaaccaccc angtcctttt ttggaaggca gcatttgagc acttcaacgg gcaaaacctc 360
 tgacgcctgc gcctttctgc gcggnccgag aaaccatttc gnactttaan attgaatctt 420
 ctctaagggt ganaatttct ggatcccttg anaactttta canntgnnct ttantccntt 480
 taaa 484

<210> 184
 <211> 824
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(824)
 <223> n = A,T,C or G

```

<400> 184
ggccttagag ctgctcgacg gccgccatgt gatggatata tgcagaattc gcccttagcg      60
tggtcgcggc cgaggtacca gattggccac tctagggttag aacaccaggt agattcctaa      120
ggttcctgac tccaggccct ggctcccagt tggcatctct ggacctactt ggggtcacag      180
tgaactcact gccctgaagg gaagatgcct ggctggatat gccacctgct gattggagag      240
tccttggaac ttgagtgaac acaggtggta gccaggcagt gatcatcata ggccttgggt      300
gagccccagt gctgtgttgg cttcagggtct gacacagagc tgtcccagtg gtagtcgcca      360
caggggtgct tgtgtcatca tcccttctcc agctccaggc agctcagcac agagacatag      420
tgtccatttg tttagtgtaa agtaaaagaa gagaacaaga gtctccacct agtaatccag      480
ggaattctcc cagatcttac ccaagacaac caaggcaaga gacacagcat tactgggctg      540
gaggtgcccc ctaatgcagg tatggctgca gtgaacaaag acttagatca caacacccaa      600
atcccttcta atagttggaa agccttncca agaaggatgc cggacaaaca agcccaaact      660
gtgaagacta caacaaatag ctaactcttt caatgcccag aactgaaga atatcccaaa      720
ctttaagacc atccatgaaa acatgacctt accaacaagc taaataagac accagtgacc      780
aatcccagag agatagagat atgtgtcctt tcnnacagag aatt                          824
  
```

<210> 185
 <211> 499
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(499)
 <223> n = A,T,C or G

```

<400> 185
cacttgacnt gatacgccaa cttgtaccga ctcggtacca ctagtaacgg ccgccagtgt      60
gctggaattc gcccttagcg tggtcgcggc cgaggtactt tttctttttt nttntatttt      120
tttttttctg cttcccaaaag ctttatctgt cttgactttt taaaaaagt tgggggcaga      180
ttctgaattg gctaaaagac atgcattttt aaaactagca actcttattt ctttccttta      240
aaaatacata gcattaaatc ccaaataccta tttaaagccc tgacagcttg agaaggtcac      300
tactgcattt ataggacctt ctggtgggtc tgctgttacg tttgaagtct gacaatcctt      360
gagaatcttt gcatgcagag gaggtgaagag gtattggatt ttcacagagg aagaacacag      420
ccgcanaatg aagggccagg cttactgagc tgccaatgga gggctcatgg gtgggacatg      480
gnaaagaagg cacctagcc
  
```

<210> 186
 <211> 504
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(504)
 <223> n = A,T,C or G

```

<400> 186
cacttgacnt gatacgccaa cttggtaccg agctcggtac ctagtaacg gccgccagtg      60
tgctggaatt cgcccttagc tgggtcgcg cagaggtacc tcaggagggtc tgcaagtgtg      120
tggttaggta aaaactganc tgtgcaaaact cactgtatcc aagctcttct catgagagag      180
cgaacaacc tggcaagctt aaaggcaagt gttttcgttc ttttaattaa ataggctgtg      240
  
```

acaaaattaa	caataaaact	agcccagaac	caaccagccc	ggtaagtgtc	gtgcaaattct	300
tgcagtaaca	aaagaccatc	tgagagacta	cacgttggtc	tccagtccta	gcaagcgtcc	360
cattctctnc	acattcttat	caattgtagc	ttgacatgtt	atctccttgg	cacattccat	420
aggaaaccag	cctctttctn	catctcgtag	tcgntccccc	ttataccagc	catcgctgac	480
acgtttgata	gatgaagacg	acgt				504

<210> 187

<211> 822

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(822)

<223> n = A,T,C or G

<400> 187

gggcctctna	gctgctcgn	ggccgccatg	tgatggatat	ctgcagaatt	cgccctttcg	60
agcgccgcc	cgggcaggta	cgcggggact	gggtttttct	cctttttag	ccttttcctt	120
tagtctctc	ttcccgtgg	ttggtaaaaa	gaggtgaatt	gacagcctat	gttgaagaca	180
ctgtgctttt	ctcaagaagg	acatccaaac	agcaagtcta	cttctttctc	tttaacgatg	240
tgctcattat	caccaagaag	aagagtgaag	aaagttacaa	cgtcaatgat	tattccttaa	300
gagatcagct	attggtggaa	tcttgtagaca	atgaagagct	taattcttct	ccaggggaaga	360
acagctccac	aatgctctat	tcaagacaga	gctctgccag	tcacctcttt	actctgacag	420
tccttagtaa	ccacgcgaat	gagaaaagtgg	agatgctact	aggagctgag	acgcagagcg	480
agcgagcccc	ctggataact	gccctgggac	acagcagcgg	gaagccgcct	gcagaccgaa	540
cctcactgac	ccaggtggaa	atcgttaggt	catttactgc	taagcagcca	gatgaactct	600
ccctgcaggt	ggctgacgtc	gtcctcatct	atcaacgtgt	cagcgatggc	tggtatgagg	660
gggaacgcact	acgagatgga	gaaagaagct	ggtttcctat	ggaatgtgcc	aaggagataa	720
catgtcaagc	tacaattgat	aagaatgtgg	agagaatggg	accttgctag	gactggagac	780
caacgtgtag	tctctcaaan	gncttttggt	actgcaagat	tg		822

<210> 188

<211> 504

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(504)

<223> n = A,T,C or G

<400> 188

tatgancatg	atacgccaac	ttggtaccga	gctcggatcc	actagtaacg	gcccggccagt	60
gtgctggaat	tcgcccttag	cgtggtcgcg	gccgaggtag	caaaaaagta	aacattgata	120
atatggcctg	acaacaatca	gatatgctaa	gctctagaag	caaaagcaag	gtaggattgc	180
ctccaaatgt	tgacaggtag	tagccatacc	acagtaacta	gatctaattg	gagggctaaa	240
tgcttgagga	ggcagaaccc	taaaggatgc	ttagttatag	ctccatgctg	ccgccgagtg	300
gcttgatgct	ccattacacc	ctccttggat	ccaaccttcc	attaaggctg	aaggctctag	360
agggcagagt	attcaagatg	ttagatctgg	tccaagccca	aattctagag	ttaaaagcag	420
aggggttctt	agtggctgaa	aaaaaacaaa	acctgatgac	atttgggact	ccagttttga	480
ggaaaggctc	tgatgatgag	gctt				504

<210> 189

<211> 842

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(842)

<223> n = A,T,C or G

<400> 189
 nnnnnnnntt tttgaaccgg cccntnang catgctcgac ggccgcatg tgatggatat 60
 ctgcagaatt cgccttttcg agcggccgcc cgggcaggta cccttctcgc ttttgccatt 120
 agccaaggat agaagctgca gtggtattaa ttttgatata atctttcaaa ccagcttcat 180
 gtggcttccc ttttctttgt tcaagatgag ggccaggagg ggaaacatca cacctgccct 240
 aaaccctgtt cctggagggtc agcatttgat ctgttgcaag cccctctttc tgtccctct 300
 tctaccctg cctcccatga ctttgctoct cacacttttg gaaccatgcc ttccgggggg 360
 gcccatctct tctggccgtc cttgtctctg ggccacttgg agtgtgtgat aaatcagtca 420
 agctgttgaa gtctcaggag tctctggtag cctgcagaag taagcctcat catcagagcc 480
 tttcctcaaa actggagtc caaatgtcat cagggtttgt ttttttcag ccactaagaa 540
 cccctctgct ttttaactcta gaatttgggc ttggaccaga tctaactct tgaatactct 600
 gccctctaga gccttcagcc ttaatggag gtggatcca aggagggtgt aatggagcat 660
 caagccactc ggccgagca tggagctata actaagcatc ctttaggggt ctgcctctcc 720
 aggcatctag cccctacatt agatctagtt actgtggtat ggctaatacc tgtcaacatt 780
 tggaggcaat cctaccttgc ttttgcttct agagcttagc atatctgat gttgcaggcc 840
 cg 842

<210> 190
 <211> 503
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(503)
 <223> n = A,T,C or G

<400> 190
 actatgacct gattacgcca agcttggtac cgagctcgga tccctagtaa cggccgccag 60
 tgtgtctgaa ttcgcccttt cgagcggccg cccgggcagg taccatgctg acttcttggt 120
 atcttttaag gcctaatttt cccttccttg agattactgt agtgtgttcc agctaatttc 180
 tatttgaaa cgagttggaa cagctgaaaa ctaggattta ttgaaggcaa agcagcctca 240
 cgctcagttt ttatcagctc atttgggaag tttttttttt ttttttttaa ttaattagaa 300
 agtaggctgg acacgggtgg tcattgcctat aatcccagca cttggggagg ccaggatct 360
 cctctctggt ggatcacttg agggcaggag ttaagagacc atcctggcca acatgatgaa 420
 accctgtctc tactaaaaat acaaaaagta nctgggcgtg gtggcatact cttacaatcc 480
 cagctacttg ggaggctgag gca 503

<210> 191
 <211> 829
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(829)
 <223> n = A,T,C or G

<400> 191
 ggccctctga gcatgctcga cggccgccat gtgatggata tctgcagaat tcgcccttag 60
 cgtggctcgc gccgaggtag tttttttttt tcttttttta catctgattt taatgcttcg 120
 ttaacttcaa aagggaactg tagagttcag aaggtagact gttgtttttc taaacctctt 180
 ccagggaagg ggacattgac acttgaattt ttgtcacctt tttcctcatt agaaggaaag 240
 tagaaagcct tactgttaga tttttaaaaa aaaatccatc tcaccccata ttggtcttaa 300
 ataagtatag actaattaac ctaagctacc tttacaacg tagaatttag atgggttcat 360
 atatgtgaga aaaacctgaa tataggacag ggttcctact tttttcccca cctctgtcgc 420
 ccaggctaga gtatagtggg gtgatcttgg cccactgcaa cctctgcttc ctagggtcaa 480
 gtgattctcc tgcctcagcc tcccaagtag ctgggattgt aagagtatgc caccacgccc 540
 agctactttt tgtattttta gtagagacag ggtttcatca tgttgccag gatggtctct 600
 taactcctgc cctcaagtga tccaccagag aggagatcct cggcctnccc aagtgtctgg 660
 attataggca tgagccaccg tgtccagcct actttctaat taattaaaaa aaaaaaaaaa 720

aaactttcca aatgagctga taaaaaactg acgtgaggct gctttgcctt caataatacc 780
tagttttcag ctgtccaact cgtttccaaa tagaaattaa gctgggang 829

<210> 192
<211> 503
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(503)
<223> n = A,T,C or G

<400> 192
ntatgaccat gattacgcca agcttggtac ccgagctcgg atccactagt aacggccgcc 60
agtgtgctgg aattcgccct ttcgagcggc cgcccgggca ggtactgcct ttgggcttct 120
tctctctcct gttttctcct ctgcaattct ttactgtttt aatacattgt tcttctggct 180
gaggctggct aaagctacac tgatcttcaa ataaaggctc gtcaatgcta cactgttctt 240
caagcaacgg ctggtgaact tgttctgaca aaggatggtc gaactttctt gcttgcttcc 300
tatgtctttc ctcttcagct aaatagagat gtttcagatt atctgggtat cgatctgtga 360
attgagattc cagtgcggtt tgagccttct tttccttccg tagcaatttc ttgtaacttt 420
gctgtatttt cagttttctt cgaaaagcaa agccttgtcc ctgcggaacg ctccccacga 480
agcttgccgg tggttaggcc gca 503

<210> 193
<211> 834
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(834)
<223> n = A,T,C or G

<400> 193
ancggctctc tagagctgct cgacggccgc catgtgatgg atatctgcag aattcgccct 60
tagcgtggtc gcggcncgag gtacaattca ttatgtgttt cattaattac ctttattaaa 120
aacaacacaa ttatattaca atagggacaa aaaatgttta agcaaatgaa aacgaaacca 180
tgacataccc aaactcagga ggaggcaaca aaggcagtcg taaagggaag cttacagctc 240
cagatgctta aattaaaaag aagaaagatc tcaaaccat gctaaaggga agcttacagc 300
tacagatcct taaattaaaa agaagaaaga tctcaaacc atgctaaagg gaagcttaca 360
gctgcagatg cttaaattaa aaagaagaaa gatctgaaac ccttgctaaa gggaagctta 420
tagctgcagg tgcttaatt aaaaagaaga aagatctcaa atcaataacc taacattaca 480
cctgaagggg gggaaaaaaa ctaatgacaa accaagcaaa aggaagaaaa taacagatta 540
gagcagagat aagcagaata agaccagaaa aaaggaaaaa aacactgagt ttgttttttt 600
aaagatcaat aaaaaattta aaactcacag ctatattaag aaaaaagaga aatctcaaat 660
actaaaatca taagtaaaag angtgacagt acaggaataa gaatgtgaga cagaagacat 720
ggcggcctac caccgcgaag ccttcgtggg gagcggtcgc ganggacaag gctttgcttt 780
tcgaagaaaa ctgaaaatnc cgcaaagttc cagaaattgt tcngaagaaa agaa 834

<210> 194
<211> 502
<212> DNA
<213> Homo Sapien

<400> 194
cacttgacct gattcgccaa gcttggtacc gagctcggat ccctagtaac ggccgccagt 60
tgctggaat tcgccctttc gagcggccgc ccgggcagga cgctgaggcc tgggagtctc 120
ttgactccac tacttaattc cgtttagtga gaaaccttcc aattttcttt tattagaagg 180
gccagcttac tgttggtggc aaaattgcca acataagtta atagaaagt ggccaatttc 240
accccathtt ctgtggtttg ggctccacat tgcaatgttc aatgccacgt gctgctgaca 300
ccgaccggag tacctcggcc gcgaccacgc taaggcgcaa ttctgcagat atccatcaca 360

ctggcgccg	ctcgagcatg	catctagagg	gcccaattcg	ccctatagtg	agtcgtatta	420
caattcactg	gccgtcggtt	tacaacgtcg	tgactgggaa	aacctggcg	ttaccctaact	480
taatcgctt	gcagcacatc	cc				502

<210> 195
<211> 848
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (848)
<223> n = A,T,C or G

<400> 195	
gnnnnnnntt	tnnaatgggc
ctctnnagca	tgctcgagcg
gccgccatgt	gatggatatc
60	
tgcagaattc	gcccttagcg
tggtcgcggc	cgaggtactc
cggtcggtgt	cagcagcacg
120	
tggcattgaa	cattgcaatg
tgagagccaa	accacagaaa
atggggtgaa	attggccaac
180	
tttctattaa	cttatgttgg
caattttgcc	accaacagta
agctggccct	tctaataaaa
240	
gaaaattgaa	aggtttctca
ctaaacggaa	ttaagtagtg
gagtcgaagag	actcccaggc
300	
ctcagcgctc	tgcccgggcg
gccgctcgaa	agggcggaatt
ccagcacact	ggcggccggt
360	
actagtggat	ccgagctcgg
taccaagctt	ggcgtaatca
tggtcatagc	tgtttcctgt
420	
gtgaaattgt	tatccgctca
caattccaca	caacatacga
gccggaagca	taaagtgtaa
480	
agcctggggg	gcctaattgag
tgagctaaat	cacattaatt
gcgttcgctc	cactgcccgc
540	
tttccagtcg	ggaaacctgt
cgtgccagct	gcattaatga
atcggccaac	gcgcggggag
600	
aggcgggttg	cgtattgggc
gctcttccgc	ttctcgcctc
actgactcgc	tgcgctcggt
660	
cgttcggctg	cggcgagcgg
tatcagctca	ctcaaaggcg
gtaataccgg	tattcacaga
720	
attcagggga	taacgcagga
aagaacatgt	gagcaaaaagg
ncagccaaag	gccaggaacc
780	
cgtnaaaaagg	ccgcgttgct
ggcgttnttc	cataggctcc
gcccccttga	cgagcatnac
840	
aaaaatct	
848	

<210> 196
<211> 511
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (511)
<223> n = A,T,C or G

<400> 196	
canntatgac	ctgattacgc
caagcttggt	accgagctcg
gatccactag	taacggccgc
60	
cagtgtgctg	gaattcgccc
ttagcgtggt	cgcggccgag
gtactttttt	tttttttttt
120	
tttttttttt	ttttagggtt
ataaaagccc	ttttataaag
ccatttttaa	acaaaacaaa
180	
aaaaaagttt	acaaaagaaa
aaaagatnca	gaaaaagaat
aacttgcttc	atatgtccca
240	
aaaagagaaa	aaaataaaag
ggacaatgcc	aacatgctca
acaataaagg	cttctttttc
300	
ttattttttt	aatacaaaat
ncaagcaaag	gatacacata
cttaaaacag	agctcaggag
360	
canacacgca	ntcctggaaa
cccttcaata	aaancaaagc
aggagtttgn	tttttctttg
420	
tctatgcana	tacatacaga
gactgggata	tgtaaaaatt
aagtatnaca	aaagaccatt
480	
acacgattct	accaatgcat
gttgcattcn	g
511	

<210> 197
<211> 816
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (816)
<223> n = A,T,C or G

<400> 197
gggacctctag agcatgctcg acggcccgcca tgtgatggat atctgcagaa ttccgcccttt 60
cgagcggccg cccggggcagg tactaaggaa gttaaagtgt gaatgtaacc actttattta 120
aaagggtttt ttctttaatt taaatgaaat ggggttgaa tgaacatgat tttgttgacc 180
atgttcgtga attacagatg caacatgcat tggtagaatc gtgtgatggg cttttgtgat 240
acttaatttt tacatatccc agtctctgta tgtatctgca tagacaaaaga aaaaacaaac 300
tcctgctttg cttttattga agggtttcca ggactgcgtg tctgctcctg agctctgttt 360
taagtatgtg tatcctttgc ttgtattttg tattaataaa ataagaaaaa gaagccttta 420
ttgttgagca tgttggcatt gtccctttta tttttttctc tttttgggac atatgaagca 480
agttattctt tttctgtatc tttttttctt ttgtaaaact tttttttgtt ttgtttaaaa 540
atggctttat aaaagggtt ttataaccct aaaaaaaaaa aannnnnnna aaaaaaaaaa 600
gtccctcgcc gcgaccacgc taaggcgcaa ttccagcaca ctggcggncg ttactagtgg 660
atccgagctc ggaccaagct tggcgtaatc atggncatag ctgttcctgt gtgaaatgtt 720
atccgctcac aattcccaca catacaaccg ggagcataaa gtgtaaacct ggggtgccta 780
atgagtgagc tactcaataa ttgcgttgcg ctccang 816

<210> 198
<211> 498
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (498)
<223> n = A,T,C or G

<400> 198
tgattcgcca agcttggtac cgagctcgga tccactagta acggcccgcc agtgtgctgg 60
aattcgccct tcgagcggnc gnccgggcag gtacaattca gagcagggtg ccatagaaac 120
aactaggntt gaaaaaactg taagacaatt cacagttgaa atcaaaccac cactgtgaat 180
gtgttaaata cttgccatat aacaacactt taacattgat cttgctaaat aaggctatga 240
ttcataagat gcatggattt ccaaagctgn ttaacattct tataaattaa ttcacaggat 300
tcaaatagtt gcttttttagc ttcaactggg tattagcaaa aatnatacaa aatgatcccc 360
gtgcaagcac aaattttacct tccttctaaa taaaacatga cagattatat tacaacttga 420
tagcctctct tttaaaaagt ctgtgacatt attaaagagg tgacggaatg cttgntttgc 480
aaaccccaac acatcttt 498

<210> 199
<211> 837
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (837)
<223> n = A,T,C or G

<400> 199
nnnnnnntnn cantgggect ctgagctgct tcgacggccg ccatgtgatg gatattctgca 60
gaattcgccc ttagcctggg cgcggccgag gtaccttgag atctgagcaa ctgtgttaat 120
gaagtaatag caatgggtcca cagtgaagaa tgtgttgagg tttgcaaaac aagcattccg 180
tcacctcttt aataatgtca cagacttttt aaaagagagg ctatcaagtt gtaatatat 240
ctgtcatggt ttatttagga aggaaggtaa atttgtgctt gcacggggat cattttgtat 300
tatttttgc taaacccagt tgaagctaaa aagcaactat ttgaatcctg tgaattaatt 360
tataagaatg ttaaaccagc ttggaaatac atgcatctta tgaatcatag ccttatttag 420
caagatcaat gttaaagtgt tgttatatgg caagtattta acacattcac agtgtttgtt 480
tgatttcaac tgtgaattgt cttacagttt ttcaaacct agttgtttct atggacacct 540
gctctgaatt gtacctgccc gggcggccgc tcgaaggcg aattccagca cactggcggc 600
cgttactagt ggtaccgagc tcggtaccaa gcttggcgta atcatgggtc tagctgnttc 660
ctgtgtgaaa ttggtatccc gctcacaatt ccacacaaca tacgagccgg aagcataaag 720
tgtaaagcct ggggtgccta atgagtgagc taactccatt aattgcgttg cgctcactgg 780
cccgttttnc agtcnggaaa cctgtctgcc anctgcatta atgaatcggc caccctcg 837

<210> 200
 <211> 506
 <212> DNA
 <213> Homo Sapien

 <220>
 <221> misc_feature
 <222> (1)...(506)
 <223> n = A,T,C or G

<400> 200
 nnnnttgacc tgattacgcc aagcttggtg ccgagctcgg atccactagt aacggccgcc 60
 agtggtgctgg aattcgccct tagcgtggtc gcggccgagg tactgcatcc ataatttatc 120
 gccatgtgca acagctttgc gttttctaag gcacaatttt taatgaaatg atgtgtagat 180
 ttcaatctaa taacagctca tccaaatgac aaatatggtc gaaatccctc cagtggctga 240
 ggaaatttct gcacctatat ggaaccaca tgcaaagaac ccacttagca tgtaataaat 300
 aatcgctagc cactactcaat aagacacgga aaaattattg cttacataac agaaaaacat 360
 ctacttgacc cccttttatg actacatcaa tctattagga gtgtatccat agtctacatt 420
 cacaaaatgt catcttgact tatttgccat tgatttaagg cagaataaat agtccccctt 480
 tccccagtct taacaacaaa aaacaa 506

<210> 201
 <211> 864
 <212> DNA
 <213> Homo Sapien

 <220>
 <221> misc_feature
 <222> (1)...(864)
 <223> n = A,T,C or G

<400> 201
 ccnntanagc atgctcgacg gccgcccggg caggtacctt ggaagttatg tcattaatat 60
 aggctgggtc atcaataaaa gcaaaacctt gcaatatcag ctagatttac actccgggac 120
 gttgccc aaa ggtaggaaga aagcaggggg aaatatattca gtcattcattt ccaaagtcac 180
 tatcaaaatc tgtgagggaag tttaattcttc caaagagtca atgtcagaca tcaggcctct 240
 gttgcctgct tctctcgagg cactagatta ggagtcttca ataagagact taacatgagg 300
 tatatggaag atgaggcacc gagataagtt catcattagg tgtgagcact gctcaccctt 360
 gctggcaagt tctccttaag ggctggaagc acagggtgtcc aaagaaaagc gtttaagtcca 420
 tcttaataga atctatgtgg tatatgatgt ggtcagcccc tggctctgtga tcagcaagaa 480
 cctacagcac agattatgcc ctgcccactt caatgaatac ctactctcct ncattctcca 540
 tcaactttttt gctatcaaga ctccggacct tgcccatgga gaagttaga gaggaactct 600
 tgtggagagc tggtaatttt tctgcctgtg gcgacaagtt tcaacttggc caagaaangg 660
 agtcaagtta ttaaaaagca tcacaatgta gaactctcca ggctgggttt tttggntttt 720
 tnggtggttn aanactgggg gnaaaagggg ggacctattt aaattccngg cctttaaaat 780
 caaatgggcc aaaattaagt tcaaggaatg gaccattttt nggggnaaat ggttngaacc 840
 ttntngggan ttccncctt ccct 864

<210> 202
 <211> 505
 <212> DNA
 <213> Homo Sapien

 <220>
 <221> misc_feature
 <222> (1)...(505)
 <223> n = A,T,C or G

<400> 202
 gnntnanacn nttactaat antganttag tncgactcg atccctctna ctncantnan 60
 ancngtngaa ttgcccttnn tagcggccnt ccngncaggt acaaccagtt tggaaaacag 120

tntcacagtt	tttttaaaaa	ttacatatat	aaccancaac	tgacccagcc	atttcactcc	180
taggtattta	cccaagatna	actgaagtgt	agatacaagc	anagacttgn	gcacaagtgt	240
tcatggttaag	ctttactngc	antagctcca	aactanggac	aactcaaata	gccaacangg	300
aaatggacaa	attatgttac	tttcatacac	tggaatatcc	tcttgatgata	aaaataantg	360
aacanttgat	acatggatga	atctcaaaat	aattatgctg	agtaaaagaa	gccagacaaa	420
atgtacagtg	catacagcta	ttcatgtggg	tgccagctcc	atcccccagt	gacctcttca	480
tacggnacaga	gggtggcatg	gcanc				505

<210> 203

<211> 819

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(819)

<223> n = A,T,C or G

<400> 203

ggcctcngca	gcatgctega	ncggccgccca	tgtgatggat	atctgcagaa	ttcgccttta	60
gcgtggtcgc	ggccgaggtg	cgccgggagag	caggaccgga	gcgcggggcca	agctggagat	120
ggatgatgct	gaccctgagg	aaagaaacta	tgacaacatg	ctgaaaatgc	tgtcagatct	180
gaataaggac	ttggaaaagc	tattagaaga	gatggagaaa	atctcagtgc	aggcgacctg	240
gatggcctat	gacatggttg	tgatgcgcac	caaccctacg	ctggccgatt	ccatgcgtcg	300
gctggaggat	gccttcgtca	actgcaagga	ggagatggag	aagaactggc	aagagctgct	360
gcatgagacc	aagcaaaagg	tgtagggccc	actggcccac	cacagctgcc	atgccaccct	420
ctgcccgtat	gaagaggtca	ctgggggatg	gagctggcac	ccacatgaat	agctgtatgc	480
actgtacatt	ttgtctggct	tcttttactc	agcataatta	ttttgagatt	catccatgta	540
tcaattgttc	acttattttt	atcacaagag	aatattccac	tgtatgaaag	taacataatt	600
tgctcatttc	cctgttggtc	atttgagttg	tccctagtgt	ggagctattg	cgagtaaaag	660
taccatgaac	atttgtgcac	aagtcctttg	ttgtatctac	acttcagttt	atcttgggta	720
aatacctang	agtgaatgg	cttgggtcaa	tntgttggtt	ggatatgtaa	ttttttaaaa	780
aaaactngna	tactgttttc	caaactgggt	tgtccctct			819

<210> 204

<211> 840

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(840)

<223> n = A,T,C or G

<400> 204

gnnnnttttn	nnctnntgga	acccgttttg	nnaagctgct	cgacggccgc	catgtgatgg	60
atatctgcag	aattcgccct	tagcgtgggc	gcggccgagg	taccttnaga	tctgagcaac	120
tgtgttaatg	aagtaatagc	aatggtccac	agtgaagat	gtgttggggg	ttgcaaaaca	180
agcattccgt	cacctcttta	ataatgtcac	agactttttt	aaaagagagg	ctatcaagtt	240
gtaataataat	ctgtcatggt	ttatttagga	aggaaggtaa	atttgtgctt	gcacggggat	300
cattttgtat	tatttttgct	aatacccagt	tgaagctaaa	aagcaactat	ttgaatcctg	360
tgaattaatt	tataagaatg	ttaaacagct	ttggaaatac	atgcatctta	tgaatcatag	420
ccttatttag	caagatcaat	gttaaagtgt	tggttatatg	caagtattta	acacattcac	480
agtgtttggt	tgatttcaac	tgtgaattgt	cttacagttt	tttcaaacct	agttgtttct	540
atggacacct	gctctgaatt	gtacccctca	gtcaccagca	aaagcatttc	cacccctttc	600
aacccccaat	cagaccactg	cattcagtg	tattggagga	ctttcatcac	agcttccagt	660
aggtgggtct	tggcacaggc	agnctgactg	gtatangaac	tgggtgctct	ggactccctg	720
cagtgaataa	cgaccctttt	gtacctgccc	gggcggccgc	taagggcgaa	ttccacacac	780
tggccggccg	ttactagtng	gategnaact	cggtcctaaan	cttggcggtat	tcatggtent	840

<210> 205

<211> 497

<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(497)
<223> n = A,T,C or G

<400> 205
nnnnttgacc tgattacgcc aagcttggta cggagctcgg atccactagt aacggccgcc 60
agtgtgctgg aattcgccct tagcgtggtc gcggccgagg tacatttact ataaaagctg 120
ttgcatttta gacaacttgt tgtttttatt ttttactggt tctcagaggc attttagaat 180
aaatacttta aatgaaagt agtataaccg atatagaaca ctggcccacc cagagcagta 240
acatcttttg gacggactca catatgaggt ggatcatttc agtttggtta atcttacct 300
gtgtatagat aactataata tgtattgcat taatcacact acatagaaag gaaatgtcat 360
ggaagtctgc tagtgaaaaa caaaaagtta cccattattt ttattaaaga gtagggacta 420
gcttttggag tatgagaaaa aaaatcagat atacttcctc aggaacaata aatcactcac 480
ttgcctcacc tgttttt 497

<210> 206
<211> 820
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

<400> 206
gggcctntag aagcatgctc gagcggccgc cagtgtgatg gatattctgca gaattcgccc 60
tttcgagcgg ccgcccgggc aggtacatgt attgaagcta gaatcgagtc aagaaaaata 120
aagccccatt ctccaaactgc aaaatgtgct ttcccataat gaacactagt caccagcaca 180
gaataatctc caacattttc taaattctaa ttgccaaactg tttctattta tatttgattt 240
atatttcatt tggagctctg tacatggcag cttaggcaga ctagatcttg ttttttccaa 300
tgcagcataa tgagtatgat ctatttcttt tcaaataatc tttgagatcc caggaaaaaa 360
aatgctctgc tccattgagc tataatgtaa atgtgtttgt ttaaaaaaca ggtgaggcaa 420
gtgagtgatt tattgttctt gaggaagtat atctgatttt ttttctcata ctccaaaagc 480
tagtccctac tctttaataa aaataatggg taactttttg tttttcacta gcgaacttcc 540
atgacatttc ctttctatgt agtgtgatta atgcaatata tattatagtt atctatacac 600
agtgtaaagt ttaacaaact gaaatgatcc acctcatatg tgagtccgct caaaagatgt 660
tactgctctg ggtgggccag tgttctatat cgggtatact aactttcatt taaagtattt 720
attctaaaat gcctctgaga aacagtaaaa ataaaaacca caagttgcta aaatgcaaca 780
gcttttatag taaatgtcct tgggccgcga ccacgcttag 820

<210> 207
<211> 496
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(496)
<223> n = A,T,C or G

<400> 207
cnnttgacct gattacgcca agcttggtag cgagctcgga tccactagta acggccgccca 60
gtgtgctgga attcgccctt agcgtggtcg cggcccaggg tacaaaaagac aaaatcagag 120
ttcaatttca gcagcaagac ttatcaagaa tttaatcact atttgacatc aatggttggt 180
tgctgtgga cgtccaaacc ctttgggaaa ggaatatata ttgacctga aatcctagaa 240
aaaactggag tggctgaata taaaaacagt ttaaagttag tccatcatcc ttctttcttg 300
agttacgctg tttctttttt gctacaggaa agcccagaag aaaggacagt aaatgtgagc 360

tctattcngg gaaagaaatg gagctgggtat ttggactatt tattttcaca nggggtacaa	420
ggcttgaaac tttttataag aagtagtggt catcattctt ncattcccag agcagaaggc	480
ataaactgca caatca	496

<210> 208
 <211> 810
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(810)
 <223> n = A,T,C or G

<400> 208	
gcatgctcga cggcccgcca gtgtgatgga tatctgcaga aattcgccct ttcgagcggc	60
cgcccgggca ggtactcctt gaggatggca gtctgtcagt gaaatgaaaa tgggaactca	120
agatgagcca ctttgcctta gcaatgagga gtgagtttag tccagtgtgt tcagtttatg	180
tcaacattca tttaatattg attggtgcag tttatgccct ctgctctggg aatggaagaa	240
tgatgaacac tacttcttat aaaaagtttc aagccttgta acccctgtga aaataaatag	300
tccaaatacc agctccattt ctttccccga atagagctca catttactgt cctttcttct	360
gggcttttct gtagcaaaaa ggaaacagcg taactcaaga aagaaggatg atggactaca	420
tttaaatgtt ttttatattc agccactcca gttttttcta ggatttcagg gtcaatatat	480
attccttttc caaagggttt ggacgtccac aggcacccaa ccattgatgt caaatagtga	540
ttaaattctt gataagtctt gctgctgaaa ttgaactctg attttgtctt ttgtacctcg	600
gccgcgacca cgctaagggc gaattccagc aacttgccgg ccggtactag tggatccgag	660
ctcgggtcaa gcttgccgta atcatgggca tagctgtttc ctgggtgtgaa attgntatcc	720
gctcacaatt ccacacaaca tacgaaccgg aagcattaag tgtaaagcct ggggtgccta	780
atgagtgagc taacttacat taattgcgnt	810

<210> 209
 <211> 495
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(495)
 <223> n = A,T,C or G

<400> 209	
cnnttgacct gattacgcca agcttggtac cgagctcgga tccctagtaa cggccgccag	60
tgtgtctgaa ttcgccctta gcgtgggtgc gcccgaggta caactctcca gggcacaata	120
cgtttacagc tgcctttcct tcacatactt ttctaattca gaactactca caattctaag	180
caaattccca ttcacgaagt ctgtccataa tgcgaccttc tcttttttta acatatacat	240
cttaaaaaac aaatatataa aaaattctta ttttgctgga atgctttcaa ttttccacat	300
tttacatgat catcacattt atttcttata ttgaaaggca tgggtttctgt tgacatgtcg	360
tgcaaagcca aaaaaaaaaa anaaaaaaaa aagggtctgga ttgcttttca attggtctaa	420
cacttttctt tgtctaggct ttggatttta aagttcatga cagccccacc accagtagaa	480
acccaaggc ttgca	495

<210> 210
 <211> 820
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(820)
 <223> n = A,T,C or G

<400> 210

gggcctcaga	gctgctcgan	cgcccgccat	gtgatggata	tctgcagaat	tcgccctttc	60
gagcgggcgc	ccgggcaggt	acccacgttt	tgctccacac	tccttgaccg	caggggctcg	120
gacacaaacc	cctgtcacca	ggagagtcag	tcagcactac	ttgggagggc	taaagggaaa	180
tttggaata	aaattccaaa	gtttggagta	aaaaaattca	agtgttgatt	ttatatctt	240
tcctttctg	acacagccta	aagcgtagg	ggaacatgtg	tttatctgtg	ggagataaac	300
aagatggagt	cccaaagact	ttacaaaaat	atTTTTTTaa	aaatccacta	gaatagaaaa	360
tacattattt	agatatactt	tatgctgaga	gtgagtatat	atgcttgctc	tatttaaaact	420
tgtgagaaaa	agtggatatcc	cttgatacat	ttagaaatat	gggggctatc	ttgtttcatt	480
gtgggggtgg	ggcagaagga	gaataaatgc	aggatgaccc	tgttgaagga	atcttancat	540
ggccaacagg	ggacgtttcc	agtcgattac	caggaaatgc	aagccttggg	gtttctactg	600
gtggtggggc	tgctcatgaac	tttaaaatcc	aaagcctaga	caaggaaaaag	tgtttagacca	660
attgaaaagc	aatccagccc	tttttttttt	nnnnTTTTTT	tttggtttg	cacgacatgt	720
caacagaaac	catgcctttc	aatntaagga	aataaatgtg	atgatcatgt	aaaatgtgaa	780
aaattgaaag	cattncacca	aataaggaat	tttttatttn			820

<210> 211

<211> 499

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(499)

<223> n = A,T,C or G

<400> 211

canttgactg	attacgcaa	gcttggtacc	gagctcggat	ccactagtaa	cgcccgccag	60
tgtgctggaa	ttcgccctta	gcgtggctgc	ggcccgaggt	acaactctcc	agggcacaa	120
acgtttacag	ctgcctttcc	ttcacatact	tttctaattc	agaactactc	acaattctaa	180
gcaaatcccc	attcacgaag	tctgtccata	atgcgcacct	ctcttttttt	aacatatata	240
ttttaaaaa	caaatatata	aaaaattctt	atTTTtGctg	aatgctttca	atTTTtcaca	300
ttttacatga	tcatcacatt	tatttcttat	attgaaaggc	atggttttctg	ttgacatgtc	360
gtgcgaagcc	aaaaaaaaaa	aaaaaaaaaa	aagggtgga	ttgcttttca	atngggtcta	420
acacttttcc	ttgtctaggc	tttgattttt	aaagttcatg	acagccccac	caccagtaga	480
aacccccagg	cttgcatTTT					499

<210> 212

<211> 821

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(821)

<223> n = A,T,C or G

<400> 212

gggcccantan	agcatgctcg	agcgcccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
tcgagcgggc	gcccgggcag	gtacccacgt	tttgctccac	actccttgac	cgcaggggct	120
cggacacaaa	cccctgtcac	caggagagtc	agtcagcact	acttgggagg	gctaaaaggga	180
aatTTggaaa	taaaattcca	aagtttggag	taaaaaaatt	caagtgttga	ttttatatct	240
tttccctttc	tgacacagcc	taaaagcgtag	ggggaacatg	tgTTtatctg	tgggagataa	300
acaagatgga	gtcccaaaga	ctttaacaaa	atattttttt	aaaaatccac	tagaatagaa	360
aatacattat	ttagatatac	tttatgctga	gagtgagtat	atatgcttgt	cctattttaa	420
cttTgtgagaa	aaagtggat	cccttgatac	atttagaaat	atgggggcta	tcttgtttca	480
ttgtgggggt	ggggcagaag	gagaataaat	gcaggatgac	cctgttgaag	gaatccttagc	540
atggccaaca	ggggacgttt	ccagtcgatt	accaggaaat	gcaagccttg	gggtttctac	600
tggtgggtgg	gctgtcatga	actttaaaat	ccaaagccta	gacaaggaaa	agtgttagac	660
caattgaaaa	gcaatccagc	cctttttttt	tttttttttt	ttggctttgc	acgacattgt	720
taacagaaac	catgcctttc	aataattagaa	ataaatgtga	tgatcatgtt	aaatgtgaaa	780
aattTgaagc	cttcagcaaa	ataagaattt	ttattttntt	n		821

<210> 213
 <211> 497
 <212> DNA
 <213> Homo Sapien

<400> 213
 acttgacctg attacgccaa gcttggtacc gagctcggat ccactagtaa cggccgccag 60
 tgtgctggaa ttccgccctta gcgtgggtcgc gcccgaggta caaaacaata gtctaaacta 120
 accaggaactg ttacctgggc tattaaagga tacacgggat ccactaaaca gacagatcct 180
 tatttccctg cttgatgttg caaagccctt ggcaaccagg ggcaaaggct actgggggtt 240
 gactaactgg ggctgagtgg cagctatgac tgccttccag atttttgagt tgtttttgaa 300
 attaaaagct tctaaaagtt gcatcaacat cctcctaagc ccccatagga ttgtaacacc 360
 accacaaaag gccaccaaca ctttttaaac aaagtgaata ctgtctgaca ccaatcatct 420
 tgaactcc atggcaagtg cattagctat gatttcatca cttacaggta gagaagctta 480
 ctgtctactg gtgtggg 497

<210> 214
 <211> 817
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(817)
 <223> n = A,T,C or G

<400> 214
 ggccttanag ctgctcgneg gccgccatgt gatggatgc tgcagaattc gccctttcga 60
 gcggccgccc gggcaggtag tctcagtcac atgcagaaat actttttttt taattaatag 120
 ttacaggctt gttggtccag tgggatttgg gtagggggag aaagatacct tctaaaatgg 180
 atcaatagaa ccaaaaataat acagcatgtt ctataaccac aaggaaatca aatgatcctg 240
 tcatgattcc agttagtcac aacctgttta gcagtgtctaa atgcatttta gaaatggtga 300
 cttctgtggt tttcctagca tttgtctcta acaaattggt aaataattac tcatggccct 360
 ctctgccatt gtctttcatt ttttcacagt gaaattagac ccctttactt caccattctg 420
 ccactgcaaa ttaagtataa agaaaatagc aagagtgtcc acaccagtag acagtaagct 480
 tctctacctg taagtgtatg aatcatagct aatgcacttg ccatggagtt ttcaagatga 540
 ttggtgtcag acagttttca ctttgtttta aaagtgttgg tggccttttg tgggtgtggt 600
 acaatcctat gggggcttan gaggatgttg atgcaacttt tagaagcttt taatttcaaa 660
 aacaactcaa aaatctgaag gacagtcata gctgccactc agccccagtt agtcaaaccc 720
 cagtgcctt tgcccttgtg tgccaagggc tttgcaacat caagcangga aataaggatc 780
 tgnctgttag tgggataccg ggtatccttt aatagac 817

<210> 215
 <211> 495
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(495)
 <223> n = A,T,C or G

<400> 215
 acttgacctg attacgccaa gcttggtacc gagctcggat ccactagtaa cggccgccag 60
 tgtgctggaa ttccgccctta gcgtgggtcgc gcccgaggta catgctgact tcttggatc 120
 ttttaaggcc taattttccc ttcccttgaga ttactgtagt gtgttccagc taatttctat 180
 ttggaacga gttggaacag ctgaaaacta ggtattattg aaggcaaagc agcctcacgt 240
 cagtttttta tcagctcatt tgggaagttt tttttttttt ttttttaatt aattagaaag 300
 taggctgggc acggtggctc atgcctataa tcccagcact tggggaggcc gaggatctcc 360
 tctctgggtg atcacttgag gccaggagtt aagagaccat cctggccaac atgatgaaac 420
 cctgtctcta ctaaaatac aaaaagtagc tgggcgtggt ggcatactct tacaatccca 480
 gctacttggg aggcn 495

<210> 216
<211> 823
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(823)
<223> n = A,T,C or G

<400> 216
gggcctcaga gcatgctcgn cggccgcccag tgtgatggat atctgcagaa ttccgcccctt 60
cgagcggccg cccgggcccag tacttttttt tcttttttta catctgattt taatgcttcg 120
ttaacttcaa aagggaactgg tagagttcag aaggtagagct gttgtttttc taaacctctt 180
cccaggaagg ggacattgac acttgaattt ttgtcacctt ttccctcatt agaaggaaaag 240
tagaaagcct tactgtagga tttttaaaaa aaaaatccatc tcaccccata ttggtcttaa 300
ataagtatag actaattaac ctaagctacc tttaacaacg tagaatttag atgggttcat 360
atatgtgaga aaaacctgaa tataggacag gggtcctact tttttcccca cctctgtcgc 420
ccaggctaga gtatagtggg gtgatcttgg ccactgcaa cctctgcttc ctaggttcaa 480
gtgattctcc tgcctcagcc tcccaagtag ctgggattgt aagagtatgc caccacgccc 540
agctactttt tgtattttta gtagagacag ggtttcatca tgttggccag gatggtctct 600
taactcctgc cctcaagtga tccaccagag aggagatcct cggcctnccc aagtgtctggg 660
attataggca tgagccaccc gtgcccagcc tactttttaa ttaattaaaa aaaaaaaaaa 720
aaaaacttnc caaatgagct gatnaaaac tgacgtgang ctgctttgcc ttcaataata 780
cctagttttc actggtccaa ctcgttttcca aatagaaatt acg 823

<210> 217
<211> 827
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(827)
<223> n = A,T,C or G

<400> 217
nnnnnnnggc ctntnnagca tgctcgacgg ccgccatgtg atggatatct gcagaattcg 60
cccttttcgag cggccgcccg ggcaggtact gtatcattgg cagatgtgac gtcaccgaca 120
accagagtga agtgccggac aaaactgagg attacctgtg gctgaagttg aaccaagtgt 180
gttttgacga cgatggcacc agctccccac aagacaggct cactctctca cagttccaga 240
agcagttgtt ggaagactat ggcgagtccc actttacggt gaaccagcaa cccttcctct 300
acttccaagt cctgttctctg acagcgcagt ttgaagcagc agttgccttt cttttccgca 360
tggagcggct gcgctgccat gctgtccatg tagcactggg gctgtttgag ctgaagctgc 420
ttttaaaagtc ctctggacag agtgctcagc tcctcagcca cgagcctggg gaccctcctt 480
gcttgcgggc gctgaacttc gtgcggctcc tcatgctgta cctcgggcgc gaccacgcta 540
agggcggaatt ccagcacact ggccggccgtt actagtggat ccgagctcgg taccagctt 600
ggcgtaatca tggatcatagc tgtttcctgt gtgaaattgt tatccgctca caattccaca 660
caacatacga gccggaagca taaagtgtaa agcctggggg gcctaattgag tgagctaact 720
cacattaatt gcgttgcgct cactgcccgc ttttcaatcg ggaaacctgt cgtgccagct 780
gcattaatga atcggncaac gcccggggan aagcgggttg cgtattt 827

<210> 218
<211> 498
<212> DNA
<213> Homo Sapien

<400> 218
cacttgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60
gtgtgctgga attcgccctt tcgagcggcc gcccgggcag gtactttttt tttttttttt 120
taattcccac aacaacccat ttcaaaatga gaaaactagg ttgagtgact tgtccacagt 180

tccaaagcta	ataaaaatga	tgaggcatat	ttctcttctg	ggccactgt	attcagttct	240
ttgttcttta	cactgagtgc	cgaaaaaaa	aaatcagact	attttgattc	tagaaagtga	300
gataattgaa	aatgttaaca	tatttctcca	aaatgatca	gactgtggag	tctgtcactt	360
ttttggtata	ataaaggagt	ttgaagaaac	aaatgacatc	attcctgatg	atggtagccc	420
actccaacaa	aggcgtatat	atgtaggcaa	gtttgaagat	atctataaga	gcattaaaag	480
gcaagtgcac	cattgtgg					498

<210> 219
 <211> 818
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (818)
 <223> n = A,T,C or G

ggcctntnga	gctgctcgac	ggccgcccag	tgatggatat	ctgcagaatt	cgcccttagc	60
gtggcgcggc	cgaggtagct	agaaaacaga	aacttgagta	gacatggtaa	tgaccagaaa	120
aggctatctt	tatacatttc	ttttgctacg	cttcaaattc	atgtcaccta	aaagttgtga	180
agtgcacaaa	acaaatctac	ttaaactgaa	attattttca	atgaatggga	tgtttagaac	240
tctgtgaggg	tttttaaggt	cttttcgaat	agcaaattct	aatgaggcct	ttttaagttg	300
gcaattttaa	ctcatacaag	aaataaaaa	tcaccagtgt	ggctgggcag	aatatatata	360
ttttctcaaa	tattgtttgt	ttgttttttc	cctgcactgt	atccatggtc	ccatgatgaa	420
actgttatat	tgctgatata	tttattggaa	tatgtgggac	aacttccttt	ccactcaaca	480
tatggattgg	tagtttaaaa	taattccttt	ctattaagca	aatgtgtggc	taaggcacat	540
ttaaatagcc	cattaaacca	atgagatgac	aatgtgttac	cctcagagaa	agcttaattt	600
ttggagtaat	caattacaca	tatcacagaa	tgtctcatga	gaacattttt	ggctaggtct	660
accaatttat	catgcaaaata	attatagatt	ttcattttgag	gcaaagatgc	tgattcatca	720
ttagtaacat	ggtcacaaa	aatcatttat	tttatttttg	taacatctgt	ctttcctgtg	780
gggaaactta	ctatatgctc	tacgttaatt	aaattaaa			818

<210> 220
 <211> 497
 <212> DNA
 <213> Homo Sapien

cacttgacct	gattacgcca	agcttggtac	cgagctcgga	tccactagta	acggccgcca	60
gtgtgctgga	attcgccctt	tcgagcggcc	gcccgggcag	gtacagccat	gaaattgttg	120
ctactcatag	aaagtcttag	tatagtttgg	tttaaacatt	ttaaaattgc	aaataaatat	180
agatagataa	tatcatgatg	agaaggtcac	gggaagcctg	gagatttcag	ggtgctcttt	240
cataattgga	gcgagaatca	tgtaacagtt	aagaaactaa	actcttgagc	cttcatagtc	300
tttgctttct	ccccatttat	ttatctgata	ttatataccc	tctttaatta	tagactggac	360
tgaaatattt	tatttttgtt	ttattataaa	aaatcctact	cgtctttaac	atgttctctt	420
aaagagtgtt	tcatatataa	atactttccc	cccaaaatat	aaagaggcta	accactatag	480
tattgaaaga	ttgaaaag					497

<210> 221
 <211> 831
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (831)
 <223> n = A,T,C or G

cnnnannggg	cctntanagc	atgctcgacg	gccgccatgt	gatggatatc	tcgagaattc	60
gcccttagcg	tggtcgcggc	cgaggtagaa	tgaaagtatg	agctacctct	ctgaagtctg	120

```

gaaaccttga gagtattaag gttacatgca taaaatcttt aaaatggaag tgtcattaca 180
tggtaaacca attcaaatta aaaataatct catgctgtga aagcaaaata tataactggt 240
ttacccattc ataggtaatt gcacgtcttt gttacatctc aatagtttct ttgtatttgt 300
tgcaatcacc ctcttcttcc tcaacactct ttctacctc catgtaactg ctgttgtagaa 360
ttctttataa tattctcatc aatgttttaa gatgaagttt aaagtgtcta caaaggaagc 420
attttaactc ctcttagaac tgagccttta aatttggttt tagacacctt aggtctttct 480
ttcaatcttt caatactata gtggttagcc tctttatatt ttggggggaa agtattttata 540
tatgaaacac tctttaagag aacatgttaa agacgagtag gattttttat aataaaaaca 600
aaataaaaata ttccagtcca gtctataatt aaagagggtg tataatatca gataaataaa 660
tgggggagaaa gcaaagacta tgaaggctca agagtttagt ttcttaactg gtacatgatt 720
ctcgctncaa ttatgaaaga gcaccctgaa atctncangc ttncctgac cttctcatca 780
tgatattatc tatctatatt tattgcaatt ttaaaatggt taaaccaaac n 831

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<210> 222
 <211> 497
 <212> DNA
 <213> Homo Sapien

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<400> 222
cacttgacct gattacgccca agcttggtac cgagctcgga tccactagta acggccgccca 60
gtgtgctgga attcgccctt agcgtggtcg cgcccgaggt actctttctc tcccctcttc 120
tgaatttaat tctttcaact tgcaatttgc aaggattaca catttcactg tgatgtatat 180
tgtgttgcaa aaaaaaagtg tctttgttta aaattacttg gtttgtgaat ccatcttgct 240
ttttcccat tggaactagt cattaaccca tctctgaact ggtagaaaaa catctgaaga 300
gctagtctat cggcatctga caggtgaatt ggatggttct cagaaccatt tcacccagac 360
agcctgtttc catcctgttt aataaattag tttgggttct ctacatgcat aacaaaccct 420
gtcccaatct gtcacataaa agtctgtgac ttgaagttta gtcagcacc cccacaaact 480
ttatttttct atgtgtt 497

```

<210> 223
 <211> 822
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(822)
 <223> n = A,T,C or G

```

<400> 223
gggcctnaga gctgctcgnc ggccgccatg tgatggatat ctgcagaatt cgcccttcga 60
gcgccgcgcc gggcaggtag tttattttca aaaaactcat atgtcgcaaa aaacacatag 120
aaaaataaag tttggtgggg gtgctgacta aacttcaagt cacagacttt tatgtgacag 180
attggagcag gggttggtat gcatgtagag aacccaaact aatttattaa acaggatgga 240
aacaggctgt ctgggtgaaa tgggtctgag aaccatccaa ttcacctgtc agatgccgat 300
agactagctc ttcagatggt tttctaccag ttcagagatg gggtaatgac tagttccaat 360
ggggaaaaag caagatggat tcacaaacca agtaatttta aacaaagaca cttttttttt 420
gcaacacaat atacatcaca gtgaaatgtg taatccttgc aaattgcaag ttgaaagaat 480
taaattcaga ggaggggaga gaaagagtac ctcgccgcg accacgctaa gggcgaattc 540
cagcacactg gcggccgtta ctagtggatc cgagctcggt accaagcttg gcgtaatcat 600
ggtcatactg gtttcctgtg tgaattgtt atccgtcac aattccacac aacatacgag 660
ccggaagcat aaagtgtaaa gcctgggggtg cctaatgagt gagctaaact acattaattg 720
cgttgcgctc actggccgct tttcagtcng gaaacctgtc gtgccagctg cattaatgaa 780
tcggccaacg cgccgggaga ngcngnttgc gtattgggcc cn 822

```

<210> 224
 <211> 494
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature

<222> (1)...(494)

<223> n = A,T,C or G

<400> 224

cncttgacnt	gattacgcca	agcttggtac	cgagctcgga	tccctagtaa	cggccgcccag	60
tgtgctggaa	ttcgccctta	gcgtggctgc	ggccgaggta	cttttttttt	tttttttaac	120
caactcaata	tgtgtttgat	gatagtgaat	tgataaaaacc	cgaagctttt	ccctgtaaat	180
cttacatctt	tgccttttaa	gaatgggtta	caaccatcac	tagatcacag	tagtgcctaa	240
tgaaggttga	gaaccgtagg	agaggctctc	atgctgtaaa	taatgttgca	ggctaataac	300
ctttcatcac	ttcctttgtg	cgttctctgc	cttaagtga	aagtagcaac	atggcttggg	360
tcccctgtgc	agcatcagct	tatgctgcca	caagtcagtt	tgcaccctag	gtgcccagga	420
gctagtatcc	ttagatcttt	ctatcgctaa	cttaattctc	ttcgttattt	atctgacct	480
ctaactccat	gtct					494

<210> 225

<211> 822

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(822)

<223> n = A,T,C or G

<400> 225

gggccttnga	gctgctcgnc	ggccgcccagt	gtgatggata	tctgcagaat	tgcgcccttcg	60
agcggccgcc	cgggcaggta	ctttaatttt	gcttgttcaa	atgatctaca	cttacatttt	120
gcaaattctt	ttttttaaat	tttttaaatt	ttatatTTTT	tttccagcca	actcaaggcc	180
aaaaaaaaatt	tcttaataata	gttattatgc	gaggggaggg	gaagcaaagg	agcacaggta	240
gtccacagaa	taagacacaa	gaaacctcaa	gctgtgaggt	caatttgtaa	ttaaaagaat	300
actaagatta	gatgaacaca	acactcagaa	atactctagg	agagctgaaa	aagaagggaac	360
agatgttaac	aaaacaaatt	aaggctgctg	gggaacctga	gtccatgtta	agcttggggt	420
gactgtaaaag	aatttttttt	tttaatgcaa	gttagacatg	gagttagagg	gtcagataaaa	480
taacgaagag	aattaagtta	gcgatagaaa	gatctaagga	tactagctcc	tgggcaccta	540
gggtgcaaac	tgacttgtgg	cagcataaag	tgatgctgca	caggggaccc	aagccatggt	600
gctacttgct	acttaaggca	ggaagcgcac	aaagggaagt	atgaaagggt	attagcctgc	660
acattattta	cagcatgaga	gcctctccta	cggttctcaa	ccttcattag	gcctactgtg	720
atctantgat	ggntgtaccc	attctttaaa	ggcaagatg	taaggattta	cagggaaaag	780
cttcgggttt	tatcaattca	ctatcatcaa	acacatatng	ng		822

<210> 226

<211> 498

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(498)

<223> n = A,T,C or G

<400> 226

anntaaacta	tgacctgatt	acgccaaact	ggtaccgagc	tccgatccac	tagtaacggc	60
cgccagtgtg	ctggaattcg	cccttttcgag	cggccgcccg	ggcaggtacc	ctctcatata	120
tgcaaacaaa	tgcagactag	gcctcaggca	gagactaaag	gacatctctt	ggggtgtcct	180
gaagtgattt	ggacccctga	gggcagacac	ctaagtagga	atcccagtgg	gaagcaaagc	240
cataaggaag	cccaggattc	cttgtgatca	ggaagtgggc	caggaaggtc	tgttccagct	300
cacatctnat	ctgcatgcag	cacggaccgg	atgcgcccac	tgggtcttgg	cttccctccc	360
atcttctcaa	gcagtgtcct	tgttgagcca	tttgatcctt	tggctccagg	tggctccctc	420
agtctggact	ctaccacttg	ggtctccaga	ttttctgtta	cgtccttgtg	ggtcaggata	480
tttctggaag	tcactccg					498

<210> 227

<211> 815
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(815)
 <223> n = A,T,C or G

<400> 227

gggcctctna	agctgctcga	cggccgccat	gtgatggata	tctgcagaat	tcgcccttag	60
cgtggtcgcg	gccgaggtac	attgatgggc	tggagagcag	ggtggcagcc	tggtctgcac	120
agaaccaaga	attacagaaa	aaagtccagg	agctggagag	gcacaacatc	tccttggtag	180
ctcagctccg	ccagctgcag	acgctaattg	ctcaaaacttc	caacaaagct	gcccagacca	240
gcacttggtg	tttgattctt	cttttttccc	tggtctctcat	catcctgccc	agcttcagtc	300
cattccagag	tcgaccagaa	gctgggtctg	aggattacca	gcctcacgga	gtgacttcca	360
gaaatatcct	gacccacaag	gacgtaacag	aaaatctgga	gacccaagtg	gtagagtcca	420
gactgaggga	gccacctgga	gccaaaggatg	caaatggctc	aacaaggaca	ctgcttgaga	480
agatgggagg	gaagccaaga	cccagtgggc	gcatccggtc	cgtgctgcat	gcagatgaga	540
tgtgagctgg	aacagacctt	cctggcccac	ttctgacac	aaggaaacct	gggcttcctt	600
atggctttgc	ttccactggg	attcctactt	agggtgctgc	cctcaggggt	ccaaatcact	660
tcaggacacc	ccaagagatg	tcctttagtc	tctgctgagg	cctantctgc	atttggttgc	720
atatatgaaa	aggtacctgc	ccgggccggc	cgttcnaang	gcgaatttca	gcacactggc	780
ggncgntact	agtggatccc	aactcggtac	caagc			815

<210> 228
 <211> 512
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(512)
 <223> n = A,T,C or G

<400> 228

annnnnttn	acctannact	atgacctgat	tacgccaaact	tggtaccgag	ctcggatcca	60
ctagtaacgg	ccgccaggtg	gctggaattc	gcccttttga	gcggccgccc	gggcaggtac	120
taggtttgca	aaaccaatag	catgcacatg	tggtgggctg	aggttcatgt	gtcagagact	180
cagttgtaga	aggaactttg	aatctggcag	gcacttaact	gtggctgctc	agaactaatg	240
tatctggggc	tgcttgagca	ggggctgagg	tcagaggcag	ggagtggagct	ctccatcatc	300
cttgactcag	accagctccc	gcaggagctc	catggtcatc	cctggagctc	atgtggagtg	360
caaggtccgg	gagtgggggc	gctgacagaa	acaaatctgg	ggggatcagc	caggggtcagc	420
aggggacaga	gatcatgtct	tttagaagaa	tgtgggcttc	ctgacctata	gaagggcagc	480
tgttcacccc	ctgcagatga	tagcagggat	ng			512

<210> 229
 <211> 815
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(815)
 <223> n = A,T,C or G

<400> 229

gggcctnaga	gcatgctcga	cggccgccat	gtgatggata	tctgcagaat	tcgcccttag	60
cgtggtcgcg	gccgaggtac	tttttttttt	tttttttttt	ttcagagata	ggttcttact	120
atgctgccct	ggctggagtg	cagtggcttt	cttaggggca	atcacagctc	actgcagcct	180
ggaactcctg	ggctcagcct	cctaagtagt	tgagactacc	aatgcacgcc	accatacctg	240
gccttagata	ccccctgtat	cctggaactc	actccttata	agagacactg	aatgtggaag	300

tcttcgcaga	tattaagggc	actgcccagt	tcctgtcttt	gaattattgg	gccaaaca	360
gaaagggcgt	cctgagggcc	cagatcatcc	ctgctatcat	ctgcaggggg	tgaacagctg	420
cccttctata	ggtcagggaag	cccacattct	tctaaaagac	atgatctctg	tcccctgctg	480
accctggctg	atccccccag	atttgtttct	gtcagcgccc	ccactcccgg	accttgcact	540
ccacatgagc	tccagggatg	accatggagc	tcctgctggg	ctgggtctga	gtcaaggatg	600
atggagagct	cactccctgc	ctntgacctc	agcccctgct	caagcagccc	cagatacatt	660
agttctgagc	agcccagtta	agtgcctgcc	agattcaaag	ttccttctac	aactgagctt	720
ctgacacatg	aaccttaagc	ccaacacatg	tgcctgctat	tgggttttgc	aaacctagta	780
cctgnccggg	cgggccgttc	gaaanggcga	attct			815

<210> 230

<211> 502

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(502)

<223> n = A,T,C or G

<400> 230

tnnancatana	cttgacctga	ttacgccaac	ttggtaccga	gctcggatcc	actagtaacg	60
gccgccagtg	tgtctggaatt	cgccctttcg	agcggccgcc	cgggcaggta	cacagagatg	120
cgggtccagct	gcaggtcgct	gtccccgtgg	taggtgccc	tggggtcgat	gccatgttca	180
tcaactgatca	cctcccagaa	cttggcaccg	atctggtagc	cacactgacc	agcctggatg	240
tgcacgattt	ccctcatggg	taaaatttaa	tttttttgct	cgcctcaagg	tatgtatggg	300
gcaagaaaat	aagtaatttt	ttttctccgc	aggtcgcagg	ctggaagggt	ggaatgcgcc	360
ccagaggctg	gagcagcgag	gtgcaaacgc	gacggcagga	aggttctgag	agccccgcgt	420
acctcggccg	cgaccacgct	aagggcgaat	tctgcagata	tccatcacac	tgccggccgct	480
cgagcatgca	tctagagggc	cc				502

<210> 231

<211> 817

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(817)

<223> n = A,T,C or G

<400> 231

nngggcctct	nnagctgctc	gacggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
agcgtggctg	cggccgaggt	acgcggggct	ctcagaacct	tcctgccgtc	gcgtttgcac	120
ctcgtgctgc	cagcctctgg	ggcgcatctc	aaccttccag	cctgcgacct	gcggagaaaa	180
aaaattactt	attttcttgc	cccatacata	ccttgaggcg	agcaaaaaaa	ttaaatttta	240
accatgaggg	aaatcgctga	catccaggct	ggtcagtggt	gctaccagat	cgggtgccaa	300
ttctgggagg	tgatcagtga	tgaacatggc	atcgacccca	ccggcaccta	ccacggggac	360
agcgacctgc	agctggaccg	catctctgtg	tacctgcccg	ggcgcccgct	cgaaaggcg	420
aattccagca	cactggcggc	cgttactagt	ggatccgagc	tcggtaccaa	gcttggcgta	480
atcatgggtca	tagctgtttc	ctgtgtgaaa	ttgttatccg	ctcacaattc	cacacaacat	540
acgagccgga	agcataaagt	gtaaagcctg	gggtgcctaa	tgagtgaagt	aactcacatt	600
aattgcgttg	cgctcactgc	ccgctttcca	gtcgggaaac	ctgtcgtgcc	agctgcatta	660
atgaatcggc	caacgcgcgg	ggagaggcng	nttgcgtatt	ggcgctctct	ccgcttnctc	720
gctcacttga	ctcgtctgcg	ctcggctcgt	cngcttgcgg	cnanccggat	tcagcttact	780
taaaggcggt	aataccgggt	atccaccaga	attangg			817

<210> 232

<211> 481

<212> DNA

<213> Homo Sapien

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<400> 232
actatgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca      60
gtgtgctgga attcgcctt tcgagcggcc gcccgggcag gtacaaaattt gttgtgtttt      120
ttatgttcta ataactactga gacttctagg tcttaggtta attttttagga agatcttgca      180
tgccatcagg agtaaatattt attgtggttc ttaatctgaa gttttcaagc tctgaaattc      240
ataatccgca gtgtcagatt acgtagagga agatcttaca acattccatg tcaaatctgt      300
taccatttat tggcatttag ttttcattta agaattgaac ataattattt ttattgtagc      360
tatatagcat gtcagattaa atcattttaca acaaaagggg tgtgaacctt agactattta      420
aatgtcttat gagaaaattt cataaagcca ttctctgtc attcagggtc agaaacaaat      480
t                                                                                   481

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```

<210> 233
<211> 809
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(809)
<223> n = A,T,C or G

```

```

<400> 233
gggcctctnn agcatgctcg acggccgcca tgtgatggat atctgcagaa ttcgccctta      60
gcgtggtcgc ggcagaggta caaaagatac tggtcacccc attagagAAC tgatttgaag      120
ttactcttcc ctgtgagggc tctgtcatct taactgtatt cacatacttt caactgttcc      180
ccttgctgct aacctcaggc tctttagttc atctatctgg cagagctgat ttggggaaaa      240
caagacaaac cttgtcaggc tttcttaata aataagcagt tgcatgttt caagagtttt      300
agaaatgagc aataatcaag gaagaggaca acgattgcat acgtttataa tatttagaac      360
atcttttgcc acaataaaca ctggaaacca cccacttgtg gacaccaaac atttggattt      420
gtatattttg tggcattccc tcaactctaat cctctcatcc ttaaaaattt tcagaaattt      480
ttgcagcaac aaacactgat tgcaacatat gatttagggc agatttatga accatttttt      540
cactgaaata catcacagg agtgagtagt ctgagtgaac accccagcat ggagaaaaact      600
gtagtcttaca gattcttctg gagcattttt atttctagat tgcagtggaa gtctaaccct      660
ccttgagat gtctgcctta aagggtcttt ggccagggtc ctctgtagag ccatagtcca      720
gatctactct atttngtgc tccttacaac atcagaacag caactctcaa tccggatcat      780
cccagaatgc cgctgagtca cagcgtggg                                                                                   809

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<210> 234
<211> 482
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(482)
<223> n = A,T,C or G

```

```

<400> 234
actatgacca tgattacgcc aagcttggtta ccgagctcgg atccactagt aacggccgcc      60
agtgtgctgg aattcgcctt tcgagcggcc gcccgggcag gtactgaaaa gaagatagtg      120
ccatttgaaa caacagatgc atcttttata cattttcaca agttingttt tcatattttt      180
aaaggcccca tttatctgta acagtgggtat ttttatttag agtatcggct acttaatata      240
tacatgcaac aatatatgct ttaatagtca ttttaacttt angaatattt catnacatta      300
agtgggttaag catagcgtta aaagagtgga atataaggaa tannaanntn tngaaaaatac      360
gctgctannt tcattingcan actatagtag aatggagatg cccataaaaag tgatcattgc      420
ccaactgaat tectaccng aactaacatg tgattctcaa gtgggganaa atattattaa      480
aa                                                                                   482

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<210> 235
<211> 474
<212> DNA
<213> Homo Sapien

```

<220>
<221> misc_feature
<222> (1)...(474)
<223> n = A,T,C or G

<400> 235
acttgacctg attacgcca gcttggtacc gagctcggat ccactagtaa cggccgccag 60
tgtgctggaa ttcgccctta gcgtggctgc ggccgaggta cattacttgg tgtaaactt 120
gttgccagt gtagccctt ttcagaaagc aacttgctgt aagtcagggt gtccgttcca 180
accttcagct agtgaaaagg tagtaacaaa tggtaaacia gagaatgatt gtttaaacct 240
atctgtggac acttaattgca actgtttaaa aatgataatc acgagttag tagcaacgtg 300
gaaatatatt tacagaacat taatggagaa gcaggggacac gaagtattat aactacagt 360
tataactcaa cagtcattat atgccgttca ttaccagtc atttaaccag ttcattataa 420
ctgtttaaaa atatatatgc ttatagtcaa aagctgttgt ggtgtgttg ttgn 474

<210> 236
<211> 819
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(819)
<223> n = A,T,C or G

<400> 236
gggccttnna gctgctcgn cggccgccag gtgatggata tctgcagaat tcgcccttcc 60
gagcggccgc cggggcagg actttttttt ttttttttt ttttttttt taactttatt 120
tttattgntg acactattac agatagaatg accacaacca tattaacaaa ccaaaaacct 180
gtgcacagaa acaagatgaa gaaaatatat caagatgtta aacacactct ttggatggtg 240
aaaacatggg tgagtttctc ttctacattt ctgtaacttc aaagtttcta taatgaacac 300
atttcatata taatggaaat atatgtagta aaggtggact accaaaacac tagaatgatg 360
acctttcaag gaaaccgaaa caaaataacc ataatcccac aacaaccaca caactatttc 420
ttgnttttca tctttcttcc catctttgac atttatgcat acttatcact aacaccctaa 480
taatcacaga ctagtgcaca gatcaagatg ttaacagtta attgtgtgtg ggtgttggtg 540
atatgtgtga attttcttta ctgaatttcc aaagttttgt atgagtatgt attatatttg 600
taatggaaaa tacatacata aaatttatta ccaaaacacc aaagattatt taagggaatt 660
tgagacaaaa tatttaacca aattcccaca atgacaacac tattttagtt attttccaca 720
tcttttcatt taagacttta tgcacacata ttttaacactg gtatcacaag cgtgggcact 780
gaaacaagga tnganggaac nggatcagga tgttagccg 819

<210> 237
<211> 483
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(483)
<223> n = A,T,C or G

<400> 237
agcttgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgccca 60
gtgtgctgga attcgccctt agcgtggctg cggccgagg actaagctca gcattgtctca 120
tggtcaatta ctgcgtatatt ccaaaaaatg tgttgtttgg tcttgagaaa attcttttagc 180
cccttgacac cagaattatc tccactgtag aaaaaataga caattatagt ctaacaggta 240
aatcacaaaa attcttcagc cacacttctc gggttcfaat gtggtttttc tactcagtaa 300
tattgtaacc ctgggcaagt tatttaactt gtctaagtct cagtttctcc atctgtaaaa 360
tgaggataat cacatatct actacataat gttcttctga agatgtaatg agataatcca 420
tgtnaaatat tcanacagca cataggaatg ggtcatttaa tgtttatcat tactgccta 480
ttt 483

<210> 238
 <211> 815
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(815)
 <223> n = A,T,C or G

<400> 238
 gggcccntnn agctgctcgn cggccgcccag tgtgatggat atctgcagaa ttgcgcccttt 60
 cgagcggccg cccgggcagg taccattatt ttctattcaa taccatattg ctgaaaaata 120
 ggcaagtaat gataaacatt aaatgaccca ttctatgtg ctgtctgaat attttacatg 180
 gattatctca ttacatcttc agaagaacat tatgtagtag atattgtgat taccctcatt 240
 ttacagatgg agaaactgag acttagacaa gttaaataac ttgccaggg ttacaatatt 300
 actgagtaga aaaaccacat ttgaaccag gaagtgtggc tgaagaattt ttgtgattta 360
 cctgttagac tataattgtc tattttttct acagtggaga taattctggt gtcaaggggc 420
 taaagaattt tctcaagacc aaacaacaca ttttttgaa atacgcagta attgaccatg 480
 agacatgctg agcttagtac ctggcgcgcg accacgctaa gggcgaaatt cagcacatg 540
 gcggccgtta ctagtggatc cgagctcggg accaagcttg gcgtaatcat ggtcatagct 600
 gtttctgtg tgaattgtt atccgctcac aattccacac aacatacgag ccggaagcat 660
 aaagtgtaaa gcctgggggtg cctaattgagt gagctaactc acattaattg cgttgcgctc 720
 actgnccgct ttccagtcgg gaaacctgtc gtgccagctg cattaatgaa tcggncaacg 780
 cgccggggag aggcngnttg cgtattgggc gtctc 815

<210> 239
 <211> 483
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(483)
 <223> n = A,T,C or G

<400> 239
 actatgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60
 gtgtgctgga attcgccctt agcgtggtcg cggccgaggt actttttttt tttttttttt 120
 ttttttttta gcgagcaagt atggnttatt acggacaaat ggtagaaaaa tggtactaat 180
 atccatagat aagttcctta agtcatgtag agagactggt attaaaagtt tgctgcattt 240
 ttctattgaa tcaagaacta gctaccagtt acagtgcctt ctaaacacac agttagcttt 300
 gctttatcaa taaccaata ataaactagg tcccaatggt tttgtccaca tntagattgt 360
 tcaggtgatc aggaactcct tttttgtgt gctttagctt ttagttcttg gttatatctc 420
 caaatacgaa aaagctgaga ggctcctact gccccacaa agaaattaac agcaaacaga 480
 ctt 483

<210> 240
 <211> 815
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(815)
 <223> n = A,T,C or G

<400> 240
 gggcctntna gctgctcgac ggcgcccag tgatggatat ctgcagaatt cgccctttcg 60
 agcggccgcc cgggcaggta caaccatcca gcaggctcca gaacagtttt cttctgggct 120
 ccaattatga aatgggggtt ggtgtgtgct ggattggctg atatggccag acctgcagaa 180


```

aaacttagca cagctcaatc tgctgttttg atggctacag ggtttatttg gtcaagatac 240
tcacttgtaa ttattccaaa aaattggagt ctgtttgctg ttaatttctt tgtgggggca 300
gtaggagcct ctgagctttt tcgtatttgg agatataacc aagaactaaa agctaaagca 360
cacaaataaa agagtctctg atcacctgaa caatctagat gtggacaaaa ccattgggac 420
ctagtattat atttggttat tgataaagca aagctaactg tgtgtttaga aggcactgta 480
actggtagct agttcttgat tcaatagaaa aatgcagcaa acttttaata acagtctctc 540
tacatgactt aagggaactta tctatggata ttagtaacat ttttctacca tttgtccgta 600
ataaaccata cttgctcgct aaaaaaaaaa aannnnnaaa aaaaaaagta cctcggccgc 660
gaccacgcta agggcgaatt ccagcacact ggccggcgtt actagtggat ccgagctcgg 720
taccaagctt ggcgtaatca tgggtcatag ctggttctctg tgtgaaatgg tatccgntca 780
caattncaca caacatacga accggaagcc ttaag 815

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<210> 241
<211> 486
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(486)
<223> n = A,T,C or G

```

```

<400> 241
agctatgacc atgattacgc caagcttggt accgagctcg gatccactag taacggccgc 60
cagtgtgctg gaattcgccc ttagcggccg cccgggcagg tacttcccac cactggaaat 120
gtagcataaa aagaacttgg agaggaaaaa agtattaaca aaactgcagt ctgcactctt 180
taaacctggt taaggctctt catcctggtt agcaaaaagg gtgaatgtaa tgtgatggaa 240
tttaaaagtt ttatgagacc aggcacagtg gctcacgact gtaattccag cagttagga 300
agccgaagtg tgcagatcac ctgaggtccg gagaccagcc tggccaacat ggtgaaaccc 360
tgtctctact agaaatacaa aaattagcca ggtgtggtgg cgggcgcctg taatcccaac 420
tactcaggag gctgaggcta gagaatcact tgaacccagc angcggaggt tgcggtgagt 480
cganat 486

```

```

<210> 242
<211> 481
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(481)
<223> n = A,T,C or G

```

```

<400> 242
anttgacctg attacgccaa gcttggtacc gagctcggat ccctagtaac ggccgccagt 60
gtgctggaat tcgcccctcg agcggccgcc cgggcaggta catcagtgtt cattttatta 120
tttcttacac tgtcttcatg acttacacat aatatattgc tagttttaaa acataagatg 180
tgataataat ctaaacagac caaaggaaat aaatgaatat gattaaaaaa agacagagaa 240
taagccctgt ctgatggaaa gcataacaaa gcaggtagaa caactgtcag gaatgcttga 300
tccaataaag ctagggttgt gatccacaac acttcagcat ttaaatgtga tttttgatgt 360
tngctttttg caatgggtgat tctcagttgc ctccctcctg tgtctttaca agctgaaatc 420
aagtgaagct acttctgact ttttctaaaa cttaaaccce acatgaaggt ctgcgtattc 480
t 481

```

```

<210> 243
<211> 824
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(824)

```

<223> n = A,T,C or G

<400> 243

cnanngggcc	tntnnagcat	gctcgacggc	cgccatgtga	tggatatctg	cagaattcgc	60
ccttagcgtg	gtcgcgccg	aggtacataa	tacttttagat	aaacattttt	agaataactt	120
tattataact	cgataagcaa	aataatccaa	acctttatac	atttctacaa	ggatagtcac	180
atatgtcaat	ttttcggttt	cctctcgtgc	ctattttgtc	tcctgagccg	gcccctttcc	240
agctgacacg	tgtgtccgt	gttctccac	aatagtgtga	cctggcctga	gtccatgccg	300
ccgtgagcct	cctttctgtg	cttacaacag	cagcctgcct	gatgtcagtt	atggactatt	360
ctttctttca	gectcatttc	agggtcctct	gcctcttaga	gctgctgctg	tagcttagct	420
agagaccgcg	tgctgttgca	tcattggaaaa	gtgccacata	cgtgcacatg	tgaaagaata	480
cgcagacctt	catgttgggt	ttaagtttta	gaaaaagtca	gaagtagctt	cacttgattt	540
cagcttgtaa	agacacagga	gggaggcaac	tgagaatcac	cattgcaaaa	agcaaacatc	600
aaaaatcaca	ttaaaatgct	gaagtgttgt	ggatcacaaa	cctagcttta	ttggatcaag	660
cattcctgac	agttgttcta	cctgcttttg	ttatgctttc	catcagacag	ggcttattct	720
ctgtcttttt	taatcatatt	catttatttc	ctttggtctg	tttagattat	tatcacatct	780
tatgttttaa	aactagcaaa	atattatgtg	taagtcatga	agnt		824

<210> 244

<211> 483

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (483)

<223> n = A,T,C or G

<400> 244

actatgacct	gattacgcc	agcttggtac	cgagctcgga	tccactagta	acggcccgcg	60
agtgtgctgg	aattcgccct	ttcgagcggc	cgcccgggca	ggtacgcggg	ggcagggtgt	120
ttaatcgctg	ccaagcggga	cttactgcaa	gctatcaaat	ctgaggtctt	attttggtga	180
gtcgaaagtg	aaattttcct	ttggccaacg	tgacagggtc	ttgtttggtg	gtaaaaaggg	240
ttactagaca	ccctcattc	cactgccact	ggaggcgca	ttctcagct	cttgctcttc	300
aaacctgctg	aaaggaattc	ctagatctaa	acaccagcat	ttgacattgt	gcagcaana	360
aatggttatg	ganaagccca	gtccgctgct	tgtangcggg	gagtttggtg	ggcaatatta	420
tactttgctg	aataaagctc	cggaatattt	acacagggtt	tatggcagga	attcttccta	480
tgt						483

<210> 245

<211> 822

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (822)

<223> n = A,T,C or G

<400> 245

ttgggcccnt	nnagcatgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtggtc	gcggccgagg	tacttcccct	cgaaaacataa	tcggtttttg	aattaagatt	120
ctctgaactg	gttcagagtc	atcaaaaacc	acaaaaccaa	aatttggag	ctttccccta	180
acacccttgg	tattgatgcg	aagtccaca	acgtttccaa	aactcatgaa	gaattccttt	240
agctcatttt	catcaatata	atgtggcaag	ttaccaacaa	aaagttgatg	actatctgga	300
tagcgaatta	ttctacggtt	gtcagagtc	ttctgttcca	tatctcctct	gcctgggtctt	360
ggtcctctag	gaggaaaacc	aggtcgttct	ctaggtcgtt	gttcacgcac	acgagggtggc	420
tgagattgaa	cttctggttt	agcttcgact	cttggctttg	gtggttcttg	tggcagagaa	480
acaggttctg	ccggaggagg	agtagtagat	ttctcctcta	gttcttctaa	gttcttctcc	540
tccacttggt	gtttcagctc	ttcagtcctt	gtttcagatt	ctggctcagg	ttcagggttca	600
tgagaggatt	cttccaaagg	ctcctctatg	ccattagtca	cagggtgagc	ttcatagtaa	660
ccactgttag	cattttcttg	cacaggttca	ggagatgggt	gnctttcttc	ttggtcctct	720

tctacttcat	cttctgattc	ttcatcaaag	ttcangctca	gaatcaccaa	acacttnatc	780
ttcataacga	aacatatcat	tgtgaacata	aaattttatt	gg		822

<210> 246
 <211> 482
 <212> DNA
 <213> Homo Sapien

<400> 246						
actatgacct	gattacgcc	agcttggtac	cgagctcgga	tccactagta	acggccgcc	60
gtgtgctgga	attcgccctt	agcgtggctg	cgcccgaggt	actttttttt	tttttttttt	120
aaccaactca	atatgtgttt	gatgatagtg	aattgataaa	acccgaagct	tttccctgta	180
aatcttcat	ctttgccttt	aaagaatggg	ttacaacat	cactagatca	cagtagtgcc	240
taatgaaggt	tgagaaccgt	aggagaggct	ctcatgctgt	aaataatgtt	gcaggcta	300
aacctttcat	cacttccttt	gtgcgcttcc	tgcttaagt	gacaagtagc	aacatggctt	360
gggtcccctg	tgacagcatc	gcttatgctg	ccacaagtca	gtttgcaccc	taggtgccca	420
ggagctagta	tccttagatc	tttctatcgc	taacttaatt	ctcttcgtta	tttatctgac	480
cc						482

<210> 247
 <211> 816
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(816)
 <223> n = A,T,C or G

<400> 247						
gggccttnga	gctgctcgan	cgcccgccat	gtgatggata	tctgcagaat	tcgccctttc	60
gagcggccgc	ccgggcaggt	actttaattt	tgcttggtca	aatgatctac	acttacattt	120
tgcaaatctt	ttttttaaat	tttttaaat	ttatattttt	tttccagcca	actcaaggcc	180
aaaaaaaaat	tcttaatat	gttattatgc	gaggggaggg	gaagcaaagg	agcacaggta	240
gtccacagaa	taagacacaa	gaaacctcaa	gctgtgaggt	caatttgtaa	ttaaaagaat	300
actaagatta	gatgaacaca	acactcagaa	atactctagg	agggctgaaa	aagaaggaa	360
agatgttaac	aaaacaaatt	aaggctgctg	gggaacctga	gtccatgtta	agcttggtt	420
gactgtaaa	aatttttttt	tttttaattg	aagttagaca	tggagttaga	gggtcagata	480
aataacgaag	agaattaagt	tagcgataga	aagatctaag	gatactagct	cctgggcacc	540
taggggtgcaa	actgacttgt	ggcagcataa	gctgatgctg	cacaggggac	ccaagccatg	600
ttgctacttg	tcacttaagg	caggaagcgc	acaaagggaag	tgatgaaagg	ttattagcct	660
gcaacattat	ttacagcatg	agagcctctc	ctacgggtct	caaccttcat	taggcactac	720
tgngatctag	tgatggttgt	acccattctt	taaaggcaaa	gatgtaagat	ttacagggaa	780
aagcttcggg	ttttatcaat	cctatcatca	acacng			816

<210> 248
 <211> 482
 <212> DNA
 <213> Homo Sapien

<400> 248						
actatgacct	gattacgcc	agcttggtac	cgagctcgga	tccactagta	acggccgcc	60
gtgtgctgga	attcgccctt	tcgagcgccc	gcccgggcag	gtactctttg	ggcattaatg	120
ccttctctgt	aattatatct	cgtttttgct	tggcagtgc	ctaccagta	attgcatcgt	180
gtattgccat	gaaaggtaaa	cacattgtga	actgaactta	ccaagcagat	tctgtgagaa	240
agcactgggt	ggggctgaac	actgttgaca	catcattttt	attggaagag	tattaactgg	300
tgctcttct	gaaacacacc	aacctatatt	cctctgctcc	cccaaagctg	tttctgatcc	360
tgctgggagc	aactaactag	ttattatgca	catctgctcc	agaccagct	ctttaacttc	420
atggttttac	agcttggttt	ttctttttct	tttcttttct	ttttttttaa	aaaagcacct	480
tt						482

<210> 249

<211> 821
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(821)
<223> n = A,T,C or G

<400> 249
ggcctctnag ctgctcgacg gccgccatgt gatggatata tgcagaattc gcccttagcg 60
tggctcgggc cgaggtactt tatgaatttg gggtaggtaa agtttgtatt ttatcttaaa 120
catgttttct atgatgaaaa ggaacaaaat tgtaaaaaat gaggatcttc cctctaaagg 180
tttcaaagcg ttagaggaca tgcaattaaa tggttgtaca ccttgaacaa tgagcctctt 240
gagttttag tagaggcaga ccggctccat taccaacaac tttggggtag aaagcacagc 300
tctcctcttt taccagcac aaatgcaatc ctgattataa aactatttgt gtttctaaat 360
acaaccaaag gaaatcttag agaaacataa attagaaacc tcttttatta aggggaaaca 420
acaaaaaaag gtgctttttt aaaaaaaaag aaaagaaaag aaaaagaaaa aacaagctgt 480
aaaaaccatga agttaagag ctgggtcttg agcagatgtg cataataact agttagtgtc 540
tcccagcagg atcagaaaca gctttggggg agcagaggaa tatgggttgg tgtgtttcag 600
aagaggcacc agttaatact cttccaataa aaatgatgtg tcaacagtgt tcagcccaa 660
ccagtgtctt ctcacagaat ctgcttggtg agttcagttc acaatgtgtt tacctttcat 720
ggcaatacac gatgcaatta ctgggtaggt cactgccaaag caaaaaccga agatntaatt 780
tcccagagaag gcattaatgc ccaaagagta cctgccccgg n 821

<210> 250
<211> 481
<212> DNA
<213> Homo Sapien

<400> 250
acttgacctg attacgcaa gcttggtacc gagctcggat ccactagtaa cggccgccag 60
tgtgctggaa ttcgccctta gcgtggctgc gcccgaggta caacattgat gttttaatat 120
agaatgaagt gcttgctaca cagtcaagta aatcaacata tccattacca cacacacttt 180
tcttttctga ggagcggtaa gagtacttta attttgcagt tattgattaa ttaaaaaaca 240
cagttgtttt cagcatttcc tagttacagt agtgcataag aaattccatt ctaaacaag 300
aagtaattaa tgaaataaca acacacctta acattttaca ttgatagggt acagtttaca 360
aggtgtcttc acatacatta ttctatttga ttcttacaac aagcagaaaa aacagtggga 420
aagatttttt ttttcagggt tacaatgagt attttcaggc caatgggcag ttaacacaag 480
g 481

<210> 251
<211> 803
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(803)
<223> n = A,T,C or G

<400> 251
gggccttnna gctgctcgn cggccgccagt gtgatggata tctgcagaat tcgccccttc 60
gagcggccgc ccggcaggta cactaaatta gaatattttt aaagtatgta acattcccag 120
tttcagccac aatttagcca agaataagat aaaaacttga ataagaagta agtagcataa 180
atcagtattt aacctaaaat tacatatattg aaacagaaga tattatgtta tgctcagtaa 240
ataattaaga gatggcattg tgtaagaagg agccctagac tgaaagtcaa gacatctgaa 300
tttcaggctg gaaaactatc agtatgatct cagccctcagt tctcttgtct gtaaaatgga 360
agaactggat taggcagttt gtaagattcc tcctaacttt cacagtcgat gacaagattg 420
tctttttatc tgatattttg aagggtatat tgctttgaag taagtctcaa taaggcaata 480
tatttttaggg catctttctt cttatctctg acagtgttct taaaattatt tgaatatcat 540
aagagccttg gtgctctgtc taattccttt ctcactcacc gatgetgaat acccagttga 600

atcaaaactgt	caacctacca	aaaacgatat	tgtggcttat	gggtattgct	gtctcattct	660
tggtatatct	ttgtgttaac	tgcccatggc	ctgaaaatac	tcattgtaag	cctgaaaaaa	720
aaaatctttc	ccactgggtt	ttctgcttgg	tgtaagaatc	aaatgaaata	tggtatgtgaa	780
agcccttgta	actgtaccta	tcn				803

<210> 252

<211> 500

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (500)

<223> n = A,T,C or G

<400> 252

tacnccaann	tttgacctga	ttacgccaaag	cttgggtaccg	agctcggatc	cactagtaac	60
ggccgccagt	gtgctggaat	tcgcccttag	cgtgggtcgcg	gccgaggtag	agatgaaaag	120
aagtgggtgt	aatgacctac	ctgcaccgat	aataaagcaa	atagaatgat	tatatacatt	180
aagatcagct	tgattaaaaa	taaattttat	atgcaggtaa	attgatcatt	aaaatgaacc	240
cagtttaact	cttctcgtgt	gttgttttaa	ggtaggccac	tgaacgcag	agataaaatc	300
anatggggaa	aattaaaagc	naagaaaaaa	attacaaaac	aagtgggtta	agccatggat	360
tcttaaccaa	accctggact	aaatgtgcc	aagtgtttg	aaaatttcca	ctgccagcna	420
tggntggtaa	agtcantttg	gcaaaaaaaa	ggtggttnga	aaaaaaactn	acctttttaa	480
ttcccacctt	ggatctggcn					500

<210> 253

<211> 831

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (831)

<223> n = A,T,C or G

<400> 253

gnnnnnnnnn	gnnnnnnnnn	ntttnnantg	ggcctctnna	gcatgctcga	cggccgccat	60
gtgatggata	tctgcagaat	tcgccctttc	gagcggccgc	ccgggcagg	actatatattg	120
tgagcctagg	gtaggggcac	tgctgcaact	tctgctttca	tcccatgcct	catcaatgag	180
gaaagggaac	aaagtgtata	aaactgccac	aattgtattt	taattttgag	gtatgatatt	240
ttcagatatt	tcataatttc	taacctctgt	tctctcagta	aacagaatgt	ctgatcgatc	300
atgcagatac	aatgtttgta	tttgagaggt	tagttttttt	tctacactt	ttttttgcca	360
actgacttaa	caacattgct	gtcagggtgga	aatttcaagc	acttttgcac	atttagttca	420
gtgtttgttg	agaatccatg	gcttaaccca	cttgttttgc	tatttttttc	tttgctttta	480
attttcccca	tctgatttta	tctctgcgtt	tcagtggcct	accttaaaac	aacacacgag	540
aagagttaaa	ctgggttcac	tttaatgata	aatttacctg	catataaaat	ttatttttaa	600
tcaagctgat	cttaaatgtat	ataatcattc	tatttgcttt	attatcgggtg	caggtaggtc	660
attaacacca	cttcttttca	tctgtacctc	ggccgcgacc	acgctaaggg	cgaattccag	720
cacactggcg	gcccgttact	agtggatccg	agctcggtag	caagcttggc	gtaatcatgg	780
gtcatagctg	tttctctgtg	gaaattggta	tccgntcaca	attcccacan	g	831

<210> 254

<211> 514

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (514)

<223> n = A,T,C or G

<400> 254
cacttgacnt gatcgccaac ttggtaccga cntcgnntcc attattaccg gacacttgac 60
tgatacgcca ncttgggtacc gactcgggacc actagtaacg gncgccagtg tgctggaatt 120
cgcccttgag cgcccgcccg ggcagggtacc tctaatacag gctaataaat ttaagctaatt 180
tatttatgct acctgtgctg ttggtggtttc ctatcagcag ccaaatataa cctcacagtt 240
gttttgcgtg ttttgctttc acaaaagagc tattaacca cttaaaaatg ttttttgatt 300
gaaggatgct taggggatga gaggatatca acaatataag cccatgccaa atccccattt 360
cttatcatta aaactgacct gacattaaag caatgcttaa ttttttacca taagagtga 420
attttgagat tataatttta aagtgtaaaa tatttacact taaattacac ttataatttt 480
aaagtgtata atatttacac agattaaaaat aaaa 514

<210> 255

<211> 830

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(830)

<223> n = A,T,C or G

<400> 255
nnnnnnngn nnnnnnnnn nnnnnnnant gggcctctnn agcntgctcg acggccgcca 60
tgtgatggat atctgcagaa ttcgccctta gcgtggctcg ggccgaggta cttttttttt 120
ttttccagat gaagtcttgc tctgttgccc aggcgtggag gcagtggcac aatctcagct 180
cactgaaacc ttcgccccct gggctcaagc tagccagtct tttagtaaac atttagtcaa 240
caaactctgca attataacgg aggtttgatt tttgttgttt ttgtttgttt ttaagtcaat 300
ctgtgtttgt aatatcaatt tacttttcaa gtttagaatg ttttgettca ttgtttccca 360
tattttattt taactctgtg aaatattata cactttaaaa ttataagtgt aatttaagt 420
taaataattt acactttaaa attataatct caaaatttca ctcttatggg aaaaaattaa 480
gcattgcttt aatgtcaggt cagttttaat gataagaaat ggggatttgg catgggctta 540
tattgttgat atcctctcat cccctaagca tccttcaatc aaaaaacatt ttaagtgtg 600
ttaatagctc ttttgtgaaa gcaaaaacag caaaacaact gtgaggttat atttgctgc 660
tgataggaaa ccaccacagc acaggtagca taaataatta gcttaaatat attagcctgc 720
attagaggta cctgcccggg cnggccgtca agggcggaatt ccagcacact ggccggccgtt 780
ctagtggtac cgactcggtc cagcttgcgt aatcatggtc atagctgttg 830

<210> 256

<211> 524

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(524)

<223> n = A,T,C or G

<400> 256
cnnnnnnnna ncntnanacn nnnnnntngn nnnnnagnnn nnnnnnnnnn nnnnnnnnan 60
actatgactg attacgcan cttgggtaccg actcggatcc actagtaacg gccgccagtg 120
tgctggaatt cgcccttagc gtggtcgcg cgagggtaca ttacttggtg ttaacattgt 180
tggcagtggt agccctttt cagaaagcaa cttgctgtaa gtcagggtgt ccgttccaac 240
cttcagccag tgaagaggt gtaacaaatg gtaacaaaga gatgattgt ttaaacctat 300
ctgtggacac ttaatgcaac tgtttaaaaa tgataatcac gagttatgta gcaacgtgga 360
aatatattta cagaacatta agtggagaaa gcaggacag aaagtatatt tatactacag 420
ttataactca acagttcatt tataatgctgn tcatttaaca gttcatttaa acagttcatt 480
ataactgttt aaaaatatat atgcttatag tcaaaagctg ttgg 524

<210> 257

<211> 814

<212> DNA

<213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(814)
 <223> n = A,T,C or G

<400> 257
 ntgggcctct agaagcatgc tcgagcggcc gccagtgtga tggatatctg cagaattcgc 60
 ccttgagcgg ccgcccgggc aggtactttt tttttttttt tttttttttt tttgatattt 120
 atttttaact ttatttttat tgnTGacact attacagata gaatgaccac aaccatatta 180
 acaaaccaaa aacctgtgca cagaaacaag atgaagaaaa tatatcaaga tgtaaccac 240
 actcttttga tggTgaaaac atgggtgagt ttctcttcta catttctgta acttcaaagt 300
 ttctataatg aacacatttc atataaatg gaaatatatg tagtaaaggt ggactaccaa 360
 aacactagaa tgatgacctt tcaaggaaac cgaacaaaaa taaccataat cccacaacaa 420
 ccacacaact atttcttgct tttcatcttt cttcccatct ttgacattta tgcatactta 480
 tcactaacac cctaataatc acagactagt gcacagatca agatgttaac agttaattgt 540
 tgttgggtgt tgggaatatg tgtgaatttt ctttactgaa ttccaaaagt tttgtatgag 600
 tatgtattat atttgaatg gaaaatacat acataaaatt tattaccaa acaccaaaga 660
 ttatttaaagg aatttgagac aaaatattta accaaattcc cacaatgaca acactatttt 720
 agttattttc cacatctttt catttaaaga ctttatgcac acatatttaa cactgnatc 780
 acaagcgtgt gcactgnaac aggattgagg aaan 814

<210> 258
 <211> 474
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(474)
 <223> n = A,T,C or G

<400> 258
 acagctatga cctgattacg ccaagcttgg taccgagctc ggatccacta gtaacggccg 60
 ccagtgtgct ggaattcggc cttagcgtgg tcgcggncca ngtacattat ttggaggact 120
 taaaatctgn atgtggacat ggtcccaact tantgtccgt taactagtta tccaaattgt 180
 aanagctaca gaaagcccag ttgaggggta antgtgcctg gntcacacag cctgcaccct 240
 gtcacctcgg caatgagcca gtgtggggca ctggggactt ctaacccttg gattgctctt 300
 ttgacctgt gcataccttc taattgnaaa atatatTTca gaccgagagt acntgcccgg 360
 gcggccnctc aaaagggcga attctgcaaa tatccatcac atggcggccg ntngagcatg 420
 catctaggag ggcncaatc ccctatagng agtngtatta caattcactg gcnc 474

<210> 259
 <211> 809
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(809)
 <223> n = A,T,C or G

<400> 259
 ntgggcccnt agangcatgc tcgnccggccg ccagtgtgat gatattctgca gaattcgccc 60
 tttcgagcgg ccgcccgggc aggtactcac ggtctgaaat atattttaca attagaaggt 120
 atgcacaggt caaaaagagc aatccaaggg ttagaagtcc ccagtgcgcc acactggctc 180
 attgccgagg tgacaggggtg caggctgtgt gagccaggca cacttacccc tcaactgggc 240
 ttctgtagct ttacaatttg gataactagt tagcggacag tagttgggac atgtcacata 300
 cagatttgag tcttccaata atgtacctcg gccgcgacca cgctaagggc gaattccagc 360
 acactggcgg ccgttactag tggatccgag ctccgtacca agcttggcgt aatcatggtc 420
 atagctgttt cctgtgtgaa attgttatcc gctcacaaat ccacacacaa tacgagccgg 480
 aagcataaag tgtaaagcct ggggtgccta atgagtgagc taactcacat taattgcgtt 540

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gcgctcactg cccgctttcc agtcgggaaa cctgtcgtgc cagctgcatt aatgaatcgg      600
ccaacgcgcg gggagaggcg gtttgcgtat tgggcgctct tccgcttcct cgctcactga      660
ctcgtcgcgc tcggtcgttc ggctgcggcg agcgggtatca gctactcaaa ggcggtaata      720
ccgttatnca cagaatcang ggatacgag gaaagaacat gtgagcaaaa ngccacaaaa      780
ggccaggaac cgtaaaaagg ccgcgctttg                                     809

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<210> 260
 <211> 713
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(713)
 <223> n = A,T,C or G

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<400> 260
ctcttttaaac gccagctcga ntccganntc taccntgac aannnnngtn ccggnctgga      60
attcgnccctt tcgagcggcc gcccgggcag gtacttgagt tcatgggcat ctctcccgcc      120
gcctctcagc ctatctgcac catgtctcac acgttcagtt gcagctctta ccgttttgaa      180
ggcgacgctg ggaagaagt cctgggcagc acaagaaagt caatcacgtt gagacagaga      240
gagcaggaga ggaagtgggc ccagtagaa gtgggcgaga gagcgttggg tgggaacgtg      300
gcacgagaga gagaaattat gagattgaga gagagagaga gagagagaga gagagagaga      360
gaaagagana ganagaggga aaganaaaga gacagagaaa agaaactatt gttggttaaa      420
atggcagcgg aaagtccatg ggggtgaatg agtcggcaa tggncangga gttagcagct      480
tggcgtagtg tctttcactg ntttggctgt cttgagaata gcattcnacn ccgactgtgg      540
ttccccanca gactttagnc ngttgccng ncttgaattg ccggaccaag gttaacatag      600
gcttttcggg tctnaatatt tttggggctn gaatantcgg aaccntttgg gctgggcat      660
ttaccgcntn cnnctgggt nnnacatttt tcttgntaa tcccgcttt tng                                     713

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<210> 261
 <211> 722
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(722)
 <223> n = A,T,C or G

```

<400> 261
acgcanttag gtaccgagct cggatcccta gtaacggccg ccagtggtgt ggaattcggc      60
cttagcgtgg tcgcgcccg aggtactcct cagccatgcc gaaggtectc ttccgggact      120
cttcgatggc agacagcagg gcattgtcct tctcattctt caggaagccc tgcagctctt      180
aaatttaagg agttacagaa cggtcgatgc tgnccatcac tgcagctctt ccaaaccctc      240
ttatatgaga tgagctctgt cggaaaccagt gctcaagttt tccccacccc aaactgcctg      300
aattgagggg tgggggtggg gagaaggaca gagagaagag aaaaagagag aaagaagana      360
aaggaaaaga acaaccctc tgcaagtgtc gatgtgactg aagcactaaa gagtcaaatt      420
aaacaatgaa gattgcaggg tccctttaa aaggggtcac tgcagncccc ngagcacanc      480
natcccatte gnttgngccg ctncacanat tctagagaaan tcnnccatca tgtttgaaan      540
gcncaaaant gatgggannt cccgnttacg cggggactta attctgcctt gggaaatcaa      600
ggaanacttt gnttggangc ggcanntnaa anntggcctt aagaangnng tgnngaatttg      660
ttggccaaac nantngaaag gtnttccggc cgatnggtcc ctgattttta aggatttnaa      720
ng                                     722

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<210> 262
 <211> 705
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature

<222> (1)...(705)

<223> n = A,T,C or G

<400> 262

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acgcttttaa cncagcttg gtaccgagct cggatcccta gtaacggccg ccagtgtgct    60
ggaattcgcc cttgccgccc gggcaggtag ctgatatttt gaacttttaa ttgctatcaa    120
atttcagctc tggttttatg cattgttgta atttctcagt gaatcccagt gcttctttcc    180
ttcttgaaaa atgccatttc gcccaggcgc ggtggctcat gcttgtaatc ccagcacttt    240
ggtagggcca ggtgggtgga tcagctgagg tctgtagttc aagaccagcc tggctaacat    300
gatgaaaccc tgtctctacc aaaaatacaa aaaaaaacta gccaggcatg gtgttgtagt    360
cctgtaatcc cagctactca ggaggctgag acaggagaat cgcttgaacc tgggagggtg    420
aggttgtagt gagccaagat cgcgccactg cactncaacc tgggcaacag agtgagactc    480
catctcaaaa naannaaaaa ggaaaatgcc atttcttggg cccantgcc aatagacca    540
agaatgttng taggaactac tttggtctgg ctgcagaagt tcttaactca gcattaaaaa    600
tccaacggtt gatttgatct cttaaaatgg ttttcnnant ttgganctga aattgagnat    660
aaattacctt tgcnnntnaa ttcaaaangt tnaacctnnt tnann                    705

```

<210> 263

<211> 656

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(656)

<223> n = A,T,C or G

<400> 263

```

acnccgttgt accgagctcg gatccctagt aacggccgcc agtgtgctgg aattcgccct    60
tagcgttggtc gcggcccagag gtaccgcggg ggagaaacgc agggagctgt gagagtgtgc    120
agtcgcgttc ctgctgtccg gacacttttt tctctactg agactcatct ggtagatccg    180
caggccagtc ctcccagggg ctgaagtgtg gaaatatggg ttttctaaga agattaatct    240
atcggcgtag accaatgata tatgtagaat cttctgagga gtccagtgat gagcaacctg    300
acgaagtggg atcaccactc caaagtcagg attctacacc tgctgaagag agagaggatg    360
agggagcatc tgcagctcaa gggcaggagc ctgaagctga tagccaggaa ctgggttcagc    420
caaagactgg gtgtgagctt ggagatgggc ctgataccaa gagggntntgc ctgcgaaatg    480
aagagcagat gaaactgccc gnagaaggcc agacctgann cgatagcagg acagttcccc    540
gaaactgggt tagcgcgaat gtctgtgtca gaggggcctg ccaatcaagg agtgaacctc    600
gggaataagc atccagctta aagannccct ganggttagt gtctngtgaa ttnoct                    656

```

<210> 264

<211> 752

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(752)

<223> n = A,T,C or G

<400> 264

```

ggnttgaang tatacgactc nctangggca attgggccct ctagatgcat gctcgagcgg    60
cccgccagtg tgatggatat ctgcagaatt cgcccttagc gtggtcgcgg ccgaggtagc    120
tttgataatt cctagacctc tattttcatt ctgtgtatta atgtgaataa cagatggata    180
ttttaatatt taaggcagat ggtaaaacttt cctataggtc ttgtgagact tcgtcttata    240
ggctgaacac cattcacaaa atgtaataat gcttcattcc ttcagggttg ggtaaagaac    300
ttgagcaact ggattagcaa agctgcaaag aatgaaatgt ggctaagat gtaattatgt    360
tctctgccct tcttttgggc cagggtagtt ttgcacttga cacaatggaa aataggccat    420
aaagcctgaa aataaaatgt tctaaacccc aatctcacag cacttttagt ggcttttcac    480
taggcattct taaagtattt tcaacaaaat actaattaag ctaccacttc aaaagagctt    540
caaggaaaag ctctgctttc ttataaaatc tttttgagac agagtttccg ctcttgctag    600
cacaggctgg agtgcaatgg ccgtgatctc gactnaaccg naaccttcgg cctgctgggt    660

```

tcaagtgatt ctctagncct caagcttctg agtaggttgg gattacaggc gcccgncaa 720
ccacacctgg gctaaatddd ggatttctan gn 752

<210> 265
<211> 747
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 265
gngntttcnc nnngcgctct anagcatgct cgagcggccg ccagtgtgat ggatatctgc 60
agaattcgcc ctttagcgtgg tcgcggccga ggtacctttg atnattccta gacctctatt 120
ttcattctgt gtattaatgt gaataacaga tggatattgt aatatttaag gcagatggta 180
aactttccta taggtcttgt gagactnctt cttataggct gaacaccatt nacnanntgt 240
antaatgctt nattccttca ggcngaggtn nanaacttga gcacctggat tagcagcagc 300
tgcgaagaat gaaatgcngc ctaacatgta attatgnatc tctgnccttc ctttgggcca 360
gggtagtnat gcncatagaca cantggatga tangccatna agcctgannn tagnaatgatc 420
taaaccnnaa tctnncagca ctttattagg ctantcacta ggcattctta agagtnggtt 480
ccnttaata ctagncaacc nncactccca aaanancctc aagganaagc tntgntntnt 540
tanaaaaatct ttctgnnaca cantttnacn cttggcgenc angctggant gcaatggccg 600
tgatctctac tcacccgaan cctcngactg ctgagttcaa gtgattgtct gnccttanct 660
ctccgggacc angnttnggg attancaagc ctccggggca annacagggtg nctaattgnt 720
tgcattngcn taaaatnagg acaccng 747

<210> 266
<211> 738
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(738)
<223> n = A,T,C or G

<400> 266
cgnnmntgaa ggnatcgact cactataggg cgaattgggc cctctagatg catgctcgag 60
cgcccgccag tgtgatggat atctgcagaa ttgcaccttt cgagcggccg cccgggcagg 120
tacagctgaa gtttgataac aaagaaatat atataagaca aaaatagaca agagttaaca 180
ataaaaaacac aactatctgt tgacataaca tatggaaact ttttgtcaga aagctacatc 240
ttcttaatat gattgtccaa atcattaaaa tatggatgat tcagtgccat tttgccagaa 300
attcgtttgg ctggatcata gattaacatt ttccagagca aatccaagcc attttcatcc 360
aagtttttga catgggatgc taggcttctg gtttccattt gggaaatgta ttcttatagt 420
cctgtaaaaga ttccacttct ggccacactt cattattggg agtgcccaaa gctctgaaat 480
cctgaagagt tgatcaattc tgaatcccat ggaaaagtgg ttcttagtgc tagtcaacaa 540
atatngngnc ctatactcca aaggtcactt ggagttgagt natggagctg accccagcat 600
acttttggaa aactggacca agtggttgca ccacnttaa aaaatttaaa accggngta 660
ttttaataaa ggtggaagaa accttttctt tttttattta aggaattcac ttagcnctta 720
ctaaattcat ggtggggg 738

<210> 267
<211> 731
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

```

<400> 267
gngnntttgn aagggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60
gcagaattcg ccccttcgag cgcccgcccg ggcaggtaca gctgaagttt gataacaaag 120
aaatatatat aagacaaaaa tagacaagag ttaacaataa aaacacaact atctgttgac 180
ataacatatg gaaacttttt gtcagaaagc tacatcttct taatctgatt gtccaaatca 240
ttaaaatatg gatgattcag tgccattttg ccagaaattc gtttggctgg atcatagatt 300
aacattttcg agagcaaatc caagccattt tcaccaagt ttttgacatg ggatgctagg 360
cttcttggtt tccatttggg aaatgtattc ttatagtcct gtaaagattc cacttctggc 420
cacacttcat tattgggagt gcccacaaagc ctgaaaatcc tgaagagttg atcaatttct 480
gaatccccat ggaaaagtgg tttcttagtt gctagttcag caaatatggt gcctatactc 540
caaatgtcaa ctggagttga gtaatgagct gacccagca atacttctgg agatctgtca 600
agtggttgca acaccattaa aaaatataaa agcagtagtt atattaaaat aatgttgaag 660
aaaacatatn cctatatatt tnaaggaatt tcactaagca ctactaaatt tcatgttggt 720
gggangngtt a 731

```

<210> 268

<211> 745

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(745)

<223> n = A,T,C or G

```

<400> 268
gnnnnnntaa agnanacntc actatanngc gaattgggccc ctctagatgc atgctcgagc 60
ggccgcccagt gtgatggata tctgcagaat tgcgcccttg agcggccgcc cgggcaggta 120
cttccacacac aggtttgttg taaaaattaa gtgagctaata gtgtataaaa tacttcagtg 180
ctgaataaat gttggctttt attatatatt gttaaaaaac aacacaggct gggatatata 240
gctcacgcct ataactctag catttaggga ggccaaggca ggaggattgc ttgagtcagg 300
gggttttgaga ccagcctggg caacatagtg agaccctatc tctacaaaat aaaataaatt 360
agttgggcat ggtggcacat gcctgtagtc ccagctactc aggaggctga ggtgggagga 420
ttgcttgagc ccaggaggta gaggttgtag tgagctgtga tcacaccact gcactccagc 480
gtcggtgagc gagtgagaac ctatctcaaa caaacaacaa aaaaaaccca aaacaacaa 540
aaaaatccag taaagacaga gattcctaaa attctacaat tctaaaaacc agtagggctc 600
actgaatata agagaggcaa gcaaaaaatt actccaatat tttgagtttg ggtaacctgg 660
aatatgggtc atttattgag taaatagtta ctgagtccta actatgtgcc acacactggg 720
ttaacacttg gcactgtctc ttatg 745

```

<210> 269

<211> 730

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(730)

<223> n = A,T,C or G

```

<400> 269
gntnnnttt tnaanceggt cctnntgcat gctcgagcgg cccgccagtg tgatggatat 60
ctgcagaatt cgccctttga gcggccgccc gggcaggtac ttcccacaca ggtttgttgt 120
aaaaattaag tgagctaata tgtataaaat acttcagtgc tgaataaatg ttggctttta 180
ttatatattg ttaaaaaaca acacaggctg ggtatgatag ctcacgccta taatcctagc 240
atthagggag gccaaaggcag gaggattgct tgagtccagg ggtttgagac cagcctgggc 300
aacatagtga gaccctatct ctacaaaata aaataaatta gttgggcatg gtggcacatg 360
cctgtagtcc cagctactca ggaggctgag gtgggaggat tgcttgagcc caggaggtag 420
aggttgagcag gagctgtgat cacaccactg cactccagcg tcggtgacgg agtgagaacc 480
tatctcaaac aaacaacaaa aaaaacccaa aacaaacaaa aaaaatccagt aaagacagag 540
attcctaaaa ttctacaatt ctaaaaacca gtagggtca ctgaatataa gagaggcaag 600

```

```
caaaaaatta ctccaatatt ttgagtttgg gtaacctgga atatggatcat tattgagtna 660
atagttactg agtcctacta tgtgcccaca ctgggtnaac acttgactg tctcttatga 720
aatcttccan 730
```

<210> 270
<211> 713
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(713)
<223> n = A,T,C or G

```
<400> 270
aattgggccc tctagatgca tgctcgagcg gccgccagtg tgatggatat ctgcagaatt 60
cgcccttttcg agcggccgcc cgggcaggta caaaccaata gctcctattc tggaagggttt 120
tcttttttatt taaaaaaaaat tcaaacagg ttaaaagtca agcaagaagg gaagagagaa 180
actgggttct gagaaaaaaa tgtgccagta taaaataaac tctaaatgc gtgcttgta 240
tctctagtt ttttttttaa gttgaatttc ttttccactg taacttaaga tttgagattg 300
aggtttgcgg tccagaacat accctcagca gatacagtga ctaactggaa agtgcagttg 360
ttcaaggctc gtcagtctca atcacctaaa gctataattt gnttgatata ttaagcatgt 420
agacctagt gacgatggga gccactcagg aagtttatgc aattaataaa ctttcagcat 480
aatcttactat gaagtatgca gaatttcacc ctcttctcca cacttaacat ttagtgtgat 540
atgtgaactc tcttttctta attggggaat gtagcattat atagaatgtt gntaaaggta 600
attttaatcc tttttgacat taaccttttt tttttttggn aaaccaagtg atctgccttt 660
cagcaactgg cttatttttg gtcctttgaaa ctgngatatt tatttcattn gnc 713
```

<210> 271
<211> 702
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(702)
<223> n = A,T,C or G

```
<400> 271
gntcagagcg gccgccagtg tgatggatat ctgcagaatt cgcccttttcg agcggccgcc 60
cgggcaggta caaaccaata gctcctattc tggaagggttt tcttttttatt taaaaaaaaat 120
tcaaacagg ttaaaagtca agcaagaagg gaagagagaa actgggttct gagaaaaaaa 180
tgtgccagta taaaataaac tctaaatgc gtgcttgta tctctagtt ttttttttaa 240
gttgaatttc ttttccactg taacttaaga tttgagattg aggtttgcgg tccagaacat 300
accctcagca gatacagtga ctaactggaa agtgcagttg ttcaaggctc gtcagtctca 360
atcaccttaa agctataatt tgtttgatat attaagcatg tagacctagt gcagcatggg 420
agccactcag gaagtttatg caattaataa actttcagca taatttacta tgaagtatgc 480
agaatttcac cctcttctcc acacttaaca tttagtgtga tatgtgaact ctctttctt 540
aattggggaa tgtncattat atagaatgtt ggtaaaggta attttaatcc tttttgacat 600
taaccttttt ttttttttgg taaaccaagt gatctgnctt ttaacaactg gcttatttgg 660
gtcctttgna actgggaatt ttatttcatt tgnnccctcg cc 702
```

<210> 272
<211> 736
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(736)
<223> n = A,T,C or G

<400> 272

gnnnntttgan	nnnnnnnnnn	ntatagggcg	aattggggccc	tctagatgca	tgctcgagcg	60
gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	agcgcccgcc	cgggcaggta	120
ctttttttta	ttcctcagtt	aaaacatgcc	tggtattctt	tttgtaatac	tttagcaatt	180
ttattttaaa	gatatactac	ttagttcatc	cgtctccact	tggttttttt	ttttgnnant	240
anngggttg	ttcctntaan	nccacnggtt	ttaaancat	nntngtcnnn	ggnaaattan	300
ntttantnat	taaanntnnn	tnnctngca	aanntccagn	taaaatttta	gtgggggggg	360
ggggttantt	acnggnaann	aattaantnc	nggnaatan	tttaannntt	ggnaangnac	420
nntngnnnta	annattattt	nnttnanntt	tttaataann	annaatttta	ntttgnaacn	480
ntggtnntta	ntaannggaa	ahnccaatta	attggttggt	tgnatttttc	ccagnaaccn	540
ntccntgggc	nggaacnncc	ntangggnaa	nttcnagnnn	ntngngggcn	gtncnnaggg	600
nnccaacnt	nggccanpn	tggnggaann	nnnggcnnna	nnggttcccn	ggggnaaatg	660
gtattcngtt	cnaatccnnc	aantccaac	ccggagnctt	aangggtaan	nccngggggg	720
cntannagn	gcctaa					736

<210> 273

<211> 715

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (715)

<223> n = A,T,C or G

<400> 273

gngntttnac	ganngnnnnn	nnnnnctgct	cgagcgggcg	ccagtgtgat	ggatatctgc	60
agaattcgcc	ctttcgagcg	gccgcccggg	caggtacttt	tttttatcc	tcagttaaaa	120
catgcctggt	attctttttg	taatacttaa	gcaattttat	tttaaagata	tactacttag	180
ttcatccgtc	tccacttggt	ttttttttt	gnnantanng	ggttgggtcc	nttaanncna	240
cnggtnttaa	anccannnnn	gtcnnggna	aattannntt	antcnntaaa	nntnnnnnnc	300
ntggnaannn	tccagntaaa	atttnagtgg	gggggggggg	ttaattancg	gnaannantt	360
aantnccgga	naatanttta	annnttgna	angnacnttn	gnntaagna	ttattnttt	420
cannttttta	atnantanna	attttaattt	gnaancntgg	nntttannaa	nnggaaannc	480
caattaattg	gttggttgna	tttttccag	naaccnnncc	ntgggcngga	acancntaa	540
ggnaaaatn	accaantgnc	ggccgtacna	aggggatcca	acntngggcc	ancctggng	600
naataatggc	cnaantgggt	nccnggggna	aatggnatte	cgttcaaat	ccnccanntc	660
cnaccggag	ccttaagngg	taaacctggg	ggcctaangg	ggggcctaac	tcaat	715

<210> 274

<211> 746

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (746)

<223> n = A,T,C or G

<400> 274

gnnnntnnan	gnntacgact	cactataggg	cgaattgggc	cctctagatg	catgctcgag	60
cggccgccag	tgtgatggat	atctgcagaa	ttcgccctta	gcgtgggtcgc	ggccgaggta	120
ccaggtgggc	tgacgcacat	cccctaaaca	ttctggatct	cttactcatc	tgaaaaggca	180
gacgtcttaa	gtctaaagtc	tagggtagga	gtttccattc	tttggaatac	caaagatggt	240
tactcttctt	aatgaaactg	agaagaaggt	atctacagaa	aacactgaat	ttaaacaaat	300
tatgaccttg	tttgttgaag	ccatcaagga	cccaagatat	atcaaagaac	aacatctctg	360
tattggccta	caggttcaga	gtgttttgag	gtctgtttta	gcactaatag	gatttttaggc	420
cagcatccag	tcagaagaga	tagttcacag	actcagagtt	ggaaaacagat	taaaaaaaaa	480
aagatgtcaa	catagaaaat	gatgatagag	tttagttaaa	aaaattcaca	cataaaatta	540
cagttaaaaa	aattcacaca	taaaatagag	tgtttgcata	gcaagacatt	attgcccttc	600
agcctggcag	aaaaacataa	actcaggtgt	atattttata	ataaacattg	nattgaatgc	660
taagaatgat	acactgggtga	acatctnctg	aatggttgcc	ttcttgtaaa	tcataccaat	720

tggttagaca attgaaattn ccagct

746

<210> 275
<211> 725
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(725)
<223> n = A,T,C or G

<400> 275

gnnnttaann	ccttccctnt	anatgcatgc	tcgagcggcc	gccagtgtga	tggatatctg	60
cagaattcgc	ccttagcgtg	gtcgcggccg	aggtaccagg	tgggctgacg	cacatcccct	120
aaacattctg	gatctcttac	tcacgtgaa	aggcagacgc	tctaagtcta	aagtctaggg	180
taggagtttc	cattcttttg	aaaaccaaag	atggttactc	ttcttaatga	aactgagaag	240
aaggatatcta	cagaaaacac	tgaattttaa	caaattatga	ccttgtttgt	tgaagccatc	300
aaggacccaa	gatatatcaa	agaacaacat	ctctgtattg	gcctacaggt	tcagagtgtt	360
ttgaggtctg	tttaagcact	aataggattt	taggccagca	tccagtcaga	agagatagtt	420
cacagactca	gagttggaaa	cagattaaaa	aaaaaaagat	gtcaacatag	aaaatgatga	480
tagagtttag	ttaaaaaaat	tcacacataa	aattacagtt	aaaaaaattc	acacataaaa	540
tagagtgttt	gcatagcaag	acattattgc	ccttcagcct	ggcagaaaaa	cataaaactca	600
ggtgtatatt	ttataataaa	cattgnattg	aatgctaaga	atgatcactg	ttgaacatct	660
cctgaatggt	ttgccttctt	gtaaatacata	ccaatgggta	gacaattgaa	attccagctc	720
tttct						725

<210> 276
<211> 744
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 276

nnnnntgann	gtatacgact	cactataggg	cgaattgggc	cctctagatg	catgctcgag	60
cgcccgccag	tgtgatggat	atctgcagaa	ttcgccctta	gcgtggctgc	ggccgaggta	120
cttctgctgt	ggtaactcaa	gtaaccctcc	gtttaaacca	ggacagacct	atgctgacaa	180
ccatttttat	cactcttagt	ggtattttct	ttctttgaac	atgaatgcat	atttctgctc	240
tttaatggcc	tttggtatgt	aagattacat	tcagctagtc	tccttattgc	atgttgtttt	300
attocagtc	caccagcact	cagaacaaca	gcaagtgtgt	gtaacagcgg	gcacaggcgc	360
tccagacgga	aggacctcac	tgacgcagtt	agctcaggta	gagcttattt	ctgtgttcaa	420
ttttcttgct	atgagaagca	gtgaccctta	agaatttgta	tccttttggt	cacttctttg	480
ttttaggaga	gaaacttcta	aagcattact	ctaaaagggt	atagagacag	agacgggcca	540
ttttcatcta	ccccttgca	agtttaagttt	tattacagta	agttgtgagg	tgagacatga	600
tggctgcagg	cacatagtca	agatctaccc	ttctaaggaa	ataaaacggg	gaaaagtggg	660
tgaatgtcca	atatagaaaa	tttaatcacc	actttcccaa	aaaagaataa	atggaggact	720
ncattggaat	tatggaaatg	aaan				744

<210> 277
<211> 724
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(724)
<223> n = A,T,C or G

```

<400> 277
gnnnnttncg antgggccct ctagatgcat gctcgagcgg ccgccagtgt gatggatatc 60
tgcagaattc gcccttagcg tggctcgcg cagggtactt ctgctgtggt aactcaagta 120
acctccggtt taaaccagga cagacctatg ctgacaacca tttttatcac tcttagtggt 180
atthttctttc tttgaacatg aatgcatatt tctgctcttt aatggccttt ggtattttaag 240
attacattca gctagtctcc ttattgcatg ttgttttatt ccagtccac cagcactcag 300
aacaacagca agtgtgtgta acagcgggca caggcgctcc agacggaagg acctcactga 360
cgcagttagc tcaggtagag cttatttctg tgttcaattt tcttgatg agaaagcagt 420
acctctaaga atttgatatc ctttggtcac ttctttgttt taggagagaa acttctaaag 480
cattactcta aaaggtgata gagacagaga cgggccattt tcatctaccc ctgcagagt 540
taagttttat tacagtaagt tgtgaggtga gacatgatgg ctgcaggcac atagtcaaga 600
tctacccttc taaggaaata aaacggggaa aagtggttga atgtccaata tagaaaattt 660
aatcaccact ttccaaaaaa gaataaatgg aggactncat tgtaattatg gaaatgaaat 720
ttgg 724

```

<210> 278

<211> 748

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(748)

<223> n = A,T,C or G

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<400> 278
gnnnntgaaa gtatacgact cactataggg cgaattgggc cctctagatg catgctcgag 60
cggcccgcca gtgtgatgga tatctgcaga attcgccctt tcgagcggcc gcccgggcag 120
gtacagctgc ccaaggcggt tcgtaacggg aatgccgaag cgtgtgaaaa agggagcgggt 180
ggcggaagac ggggatgagc tcaggacaga gccagaggcc aagaagagta agacggccgc 240
aaagaaaaat gacaaagagg cagcaggaga gggccagcc ctgtatgagg acccccaga 300
tcagaaaacc taccacagtg gcaaacctgc cacactcaag atctgctctt ggaatgtgga 360
tgggcttcga gcctggatta agaagaaagg attagattgg gtaaagggaag aagccccaga 420
tatactgtgc cttcaagaga ccaaattgtt agagaacaaa ctaccagctg aacttcagga 480
gctgcctgga ctctctcatc aatactggtc agctccttcg gacaagggaag ggtactagca 540
actaaccatg gttaaaagggt cttagtacga attacaaaaa caaacattt agagtaatac 600
ttatgaatac aagcataatt ggttcctcgc cttctacaaa taaccatctt gaaaatgata 660
aaagcaggtt tcaactgtgg tcttctctca ttgagaaggt gcagatacac atgggtgatc 720
tactgattta cttcttgaa agtnctcg 748

```

<210> 279

<211> 727

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(727)

<223> n = A,T,C or G

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<400> 279
gnnnnttcga ntgggccctc tngngcatgc tcgagcgcca cgccagtgtg atggatatct 60
gcagaattcg ccctttcgag cggccgcccg ggcagggtaca gctgcccaag ggcgttcgta 120
acgggaatgc cgaagcgtgt gaaaaagga gcggtggcgg aagacgggga tgagctcagg 180
acagagccag aggccaaaga gtagtaagacg gccgcaaaaga aaaatgacaa agaggcagca 240
ggagagggcc cagccctgta tgaggacccc ccagatcaga aaacctcacc cagtggcaaa 300
cctgccacac tcaagatctg ctcttggaat gtggatgggc ttcgagcctg gattaagaag 360
aaaggattag attgggtaaa ggaagaagcc ccagatatac tgtgccttca agagacaaaa 420
tgttcagaga acaaaactacc agctgaactt caggagctgc ctggactctc tcatcaatac 480
tggtcagctc cttcggacaa ggaaggggtac tagcaactaa ccatgggtta aaggtcttag 540
tcagaattac aaaaaaaaaa catttagagt aatacttatg aatcaagcat aattgggtcc 600
tcgccttcta caaataccat ctttgaaaaat gatnaaaagc aggtttcaac tgtggttctt 660

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ctctcanttg aaaaggtcag atcccatggg tgatctactg atttaccttc tgaaaagtac 720
ttggccg 727

<210> 280
<211> 751
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 280
gnnnntgann gtatacgact cactataggg cgaattgggc cctctagatg catgctcgag 60
cggccgccag tgtgatggat atctgcagaa ttccgccctta gcgtggtcgc ggccgaggta 120
ctcatgtatt tttttttttt tccagatctc tttccccaag ttgctattgt aagagtattc 180
tgctgcgtgt ggatgcagtt atacacatta aagcagatct ggagtctgaa gtagctataa 240
agcagctata aaacagaaat acatgcatag ctgcagaaac catgataggt agaggacttt 300
tcttttggtt ttgttttggt ttgttttggt ttgttttggt ttttacagag aagagatttt 360
tattacaaag aaaaaaattc cagtgaattg tgcagaaatg ctggttttta caccatccta 420
aagaaaaaact ttacaagggt gttttggagt agaaaaaagg ttataaagtt ggaatcttaa 480
attgtaaaat taaccattga gtgtcaaagt tctaaaagca gaactcattt tgtgcaatga 540
acataaggaa agactactgn ataggttttt tttttctcct tttaaatgaa gaaaagcttt 600
gcttaagggt tgcatacttt tattggagta aatctgaatg atcctactcc tttggagtaa 660
aactagtgtc taccagtttc caattggatt taacttctgg ggtggaattt ggaaaaaaa 720
agaannnnngg aaaaagaaaa cctaanttaa n 751

<210> 281
<211> 727
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(727)
<223> n = A,T,C or G

<400> 281
gnnnttcgan tgggccctct agatgcatgc tcgagcggcc gccagtgtga tggatatctg 60
cagaattcgc ccttagcgtg gtccgcggcc aggtactcat gtattttttt ttttttccag 120
atctctttcc ccaagttgct attgtaagag tattctgctg cgtgtggatg cagttatata 180
cattaaagca gatctggagt ctgaagtagc tataaagcag ctataaaaca gaaatacatg 240
catagctgca gaaacatga taggtagagg acttttcttt tggttttggt ttgttttggt 300
ttgttttggt tttggtttta cagagaagag atttttatta caaagaaaaa aattccagtg 360
aattgtgcag aaatgctggt ttttacacca tcctaaagaa aaactttaca aggggtgttt 420
ggagttagaaa aaaggttata aagttggaat cttaaattgt aaaattaacc attgagtgtc 480
aaagttctaa aagcagaact cattttgtgc aatgaacata aggaagact actgnatagg 540
tttttttttt ctctttttaa atgaagaaaa gctttgctta aggggttgcac acttttattg 600
gagtaaatct gaatgacct actcctttgg agtaaaaacta gngcttccag tttccaattg 660
gatttaactt ctggnatggaa tttgnaaaaa aaagaanaaa aggaaaanga aaccctaant 720
naaatag 727

<210> 282
<211> 749
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 282

tnnaaagnaa	gctcttttact	cactatnngg	gcgaattggg	ccctctagat	gcatgctcga	60
gcggcgccca	gtgtgatgga	tatctgcaga	attctncctt	cgagcgcccg	cccgggcagg	120
tacttttttt	tttttttttt	tttttttttt	tttttnaaac	tactaggatt	tactgtagga	180
taaaagctnt	acatggccct	gcntacaaac	tttctgcata	cttctgcaaa	tttttatgcn	240
ttactnaatc	cattaaaaat	caccttggaa	naaactgcaa	acncantana	aactaaatga	300
natagtcaca	gagaacanca	aaaatagtaa	ttnaagtctc	catacaacat	caagtgtgtn	360
cagctctatt	tnggttcttc	gggttctctt	taaaattgaa	ttgagtttgn	atatgcatat	420
gtatgttaga	gtggaggatg	gaattaatta	tcccaaacat	cctacantca	ctcctctaata	480
atttctttng	ttaacatgca	aatctgttct	cttcattacg	gngatactgc	atttacatta	540
caacacantt	agagatcatt	aactttctcc	tttataatca	gccattttca	caggcctttg	600
atatacaagc	acctataata	tattcttact	catctcacac	tttcattttac	caaagtgtca	660
aaacaacatt	tttacatcat	tgatatttgg	ttnantttct	gcaanctggc	tggtanaaaa	720
tgattacttc	tnntaaatta	ccttttanc				749

<210> 283

<211> 730

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(730)

<223> n = A,T,C or G

<400> 283

gtctntgaan	cnggncctct	ngatgcatgc	tcgagcgccg	gccagtgtga	tggatatctg	60
cagaattcgc	ccttcgagcg	gcgcgccggg	caggtaacttt	tttttttttt	tttttttttt	120
tttttttttc	aaactactag	gatttactgt	aggataaaaag	ctntacatgg	ccctgcatac	180
aaactttntg	catacttntg	caaattttta	tgcatctactc	aatccattaa	aatcacctt	240
ggaanaaaact	gcaaacncaa	tagaaactaa	atganatagt	cacagagaac	aacaaaaata	300
gtaattttaag	ttcccataca	acatcaagtg	tggtcagtct	atttttggtt	cttcgggttc	360
tctttaaaat	tgaattgagt	ttgtatatgc	atatgtatgt	aggantggag	gatggaatta	420
attatcccaa	acatcctaca	ctcactcctc	taatatctct	tttggttaaca	tgcaaatctg	480
ttctcttcat	tacgnggata	ctgcatttac	attacaacac	aattagagat	cattaacttt	540
ctcctttata	atcagccatt	ttcaagggcc	ttgatatac	aagcacctat	aatatattct	600
tactcatctt	acactttcat	ttaccaaagt	gtcaaaaaca	acattttttac	atcattggat	660
atttggttta	gtttctgcaa	nctggctttt	anaaaaatga	ttacttctct	taaattacct	720
tttaccctca						730

<210> 284

<211> 739

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(739)

<223> n = A,T,C or G

<400> 284

gnnntnaaag	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggccgcccag	gtgatggata	tctgcagaat	tcgcccttag	cgtggtcgcg	gccgaggtac	120
aacataaagc	aacagagagg	tcttcatggt	tgggaagtgg	ctgggcagga	tgccaaaccc	180
caaagtactt	attgagcaat	ttctaaacca	aacagagagg	taggaaaaga	ggatgggggt	240
caggggtgga	ggctgtggaa	aggggagagc	gagggctgaa	gagaatggca	gccatacagg	300
tgttttggtt	ttatttcac	atctgaggac	tgagagtctg	atttgctgcc	tgtccatttc	360
cgccactcat	tgactgtcca	tagttcatca	tgccattggc	tccatagaag	ttcatcccag	420
ccatctgctg	ggctcatctga	gtaagggtcc	attgcagctg	ctgagctggc	tggaacccat	480
acacagctcg	gggcatagct	gccatgectg	ccatgtagcc	agcctgctgg	gtggatcatca	540
ttccattcgg	cacaccatc	attgatgcct	gcattgccacc	catatagcct	gcaggcatgg	600

```
ccatgggggc aaccatccca gaactnctgc tgagcaacca tgcctactgg tggagcatc 660
atgcttccca ttatgctgtt angangtgta ccccnngggaa actggggtag ctgtgggata 720
tccatctgan cgggaccat 739
```

```
<210> 285
<211> 721
<212> DNA
<213> Homo Sapien
```

```
<220>
<221> misc_feature
<222> (1)...(721)
<223> n = A,T,C or G
```

```
<400> 285
gnnnttcgan tgggcccctct ngatgcatgc tcgagcggcc gccagtgtga tggatatctg 60
cagaattcgc ccttagcgtg gtcgcggcac gaggtacaac ataaagcaac agagaggtct 120
tcatgtttgg gaagtggctg ggcaggatgc caaaccccaa atgacttatt gagcaatttc 180
taaaccacaa agagaggttag gaaaagagga tgggggtcag ggggtggaggc tgtggaaaagg 240
ggagagcgag ggctgaagag aatggcagcc atacaggtgt tttgttttta tttccacatc 300
tgaggactga gagtctgatt tgctgcctgt ccatttccgc cactcattga ctgtccatag 360
ttcatcatgc cattggctcc atagaagttc atcccagcca tctgctgggt catctgagta 420
aggttccatt gcagctgctg agctggctgg accccataca cagtctgggg catagctgcc 480
atgcctgcca tgtagccagc ctgctgggtg gtcatcattc cattcggcac acccatcatt 540
gatgcctgca tggcaccat atagcctgca ngcatggcca tgggggcaac catcccagaa 600
ctcctggctg agcaaccatg cctactgggt gangcatcat gcttcccatt atgctgttag 660
gangtgtacc ccggggaanc tggggtagct gtgggatatc catttaaccg gagccatgaa 720
c 721
```

```
<210> 286
<211> 757
<212> DNA
<213> Homo Sapien
```

```
<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G
```

```
<400> 286
gnnnnttaaa gnntacgact cactataggg cgaattgggc cctctagatg catgctcgag 60
cggcccgcga gtgtgatgga tatctgcaga attcgccctt tcgagcggcc gcccgggcag 120
gacgcggggg ttgcaccatg gcgtccatgg ggaccctcgc cttcgatgaa tatgggcgcc 180
ctttcctcat catcaaggat caggaccgca agtcccgtct tatgggactt gaggccctca 240
agtctcatat aatggcagca aaggctgtag caaatacaat gagaacatca cttggaccaaa 300
atgggcttga taagatgatg gtggataagg atggggatgt gactgtaact aatgatgggg 360
ccaccatctt aagcatgatg gatgttgatc atcagattgc caagctgatg gtggaactgt 420
ccaagtctca ggatgatgaa attggagatg gaaccacagg agtggttgct ctggctggtg 480
ccttggtaga agaagcggag caattgctag accgaggcat tcaccaatc agaatagccc 540
gatggctatg agcaggctgc tcgctgtgct attgaacacc tggacaagat cagcgatagc 600
gtccttggtg acataaagga caccgaaccc ctgattcaga cagcaaaaaa ccacgtggg 660
cttncaaaag tggtaaacag ttgtcaccga cagatggctt gaaaattgct gtgaaatgcc 720
cgctccttact gtaaccagat atngaaccgg aaaagac 757
```

```
<210> 287
<211> 726
<212> DNA
<213> Homo Sapien
```

```
<220>
<221> misc_feature
<222> (1)...(726)
```

<223> n = A,T,C or G

<400> 287

gnnnnnactga	tttctggctc	gaagttgnat	ntgcggncgc	cagtgtgatg	gatatctgca	60
gaattcgccc	tttcgagcgg	ccgcccgggc	aggacgcggg	ggttgcacca	tggcgtccat	120
ggggaccctc	gccttcgatg	aatatgggcg	ccctttcctc	atcatcaagg	atcaggaccg	180
caagtcocgt	cttatgggac	ttgaggccct	caagtctcat	ataatggcag	caaaggctgt	240
agcaaataca	atgagaacat	cacttggacc	aaatgggctt	gataagatga	tgggtgataa	300
ggatggggat	gtgactgtaa	ctaattgatg	ggccaccatc	ttaagcatga	tggatgttga	360
tcattcagatt	gccaaactga	tgggtggaact	gtccaagtct	caggatgatg	aaattggaga	420
tggaaaccaca	ggagtgtgtg	tcctggctgg	tgccttggtt	gaagaagcgg	agcaattgct	480
agaccgaggg	attcacccaa	tcagaatagc	ccgatggcta	tgagcaggct	gctcgcgttg	540
ctattggaaca	cctggacaag	atcagcgata	gcgtccttgn	tgacataaag	gacaccgaac	600
ccctgattca	gacagcaaaa	accacgctgg	gctccaaaag	tgggtcaacag	ttgtcaccga	660
cagatggctg	aaaatgctgt	gaatgccgtc	ctnctgtanc	agatatngaa	ccggaaaaga	720
ccttga						726

<210> 288

<211> 743

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(743)

<223> n = A,T,C or G

<400> 288

gnnntganng	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggccgcccagt	gtgatggata	tctgcagaat	tcgcccctcg	gccgcccggg	caggtaacct	120
ttacctaaaa	ttctagccac	tttaatttgg	agagtttcca	gagcaaaagg	cacagatccc	180
aggcataaca	acgctttgcg	tatacagcaa	ccaatatctt	gtcaacccaa	gaaagtctct	240
ccattgatac	ctagttagaaa	tagccccagt	tttaaagtcc	tcaaaaactgt	aacaaattac	300
ttgtttttta	aatttaactt	aaattaatac	aatcagattt	ttgtgttatt	tgggtattag	360
agtatgttaa	agcacatata	tcccagagac	atagagtttc	cgtttcaaaa	agtcattgat	420
tcattgtgtg	taatgacaat	cctatcctga	cccgctatgt	gacttgtatc	tctaaaccat	480
aggctttcct	gaattttatc	tgttaattta	accctgatgt	ctcagcagca	gcttctcttt	540
gtaaatagac	ttgcctcttc	tgtgtctgac	ctctgtcctc	cataatcaga	ttaactcaga	600
taaagctgct	tcagggaaga	ggtcaaaaacc	gttgccaaaa	atagtagttg	ccctacttca	660
gtctattttc	aacagagtag	cccaggagat	ctgtcacacc	aaagtccaat	cagccctact	720
ggtagcactc	tgntcacaag	ccn				743

<210> 289

<211> 726

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(726)

<223> n = A,T,C or G

<400> 289

gnnnnnactc	gcagtcocgt	tagatgcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttcggcc	gcccgggcag	gtacctttta	cctaaaaattc	tagccacttt	120
aatttggaga	gtttccagag	caaagggcac	agatcccagg	cataacaacg	ctttgcgtat	180
acagcaacca	atatcttgct	aacccaagaa	agttcctcca	ttgataccta	gtagaaatag	240
cccagttttt	aaagtccctc	aaactgtaac	aaattacttg	tttttaaaat	ttactttaaa	300
ttaatacaat	cagatttttg	tgttatttgg	gtattagagt	atgttaaagc	acatatatcc	360
cagagacata	gagtttocgt	ttcaaaaagt	catgcattca	tgtgtgctaa	tgacaatcct	420
atcctgaccc	gctatgtgac	ttgtatctct	aaaccatagg	ctttcctgaa	ttttatctgt	480
taattttaacc	ctgattttct	agcagcagct	tctctttgta	aatagacttg	cctcttctgt	540

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gtctgacctc tgctcctcat aatcagatta actcagataa agctgcttca ggaagaggt 600
caaaaccggt gccaaaaata gtagttgccc tacttcagtc tattttcaac agagtagcca 660
ggagatctgt tcacaccaa gtccaatcag ccctactggt agcactctgc tcacaagcct 720
ncagtg 726
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<210> 290

<211> 740

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(740)

<223> n = A,T,C or G

<400> 290

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gnnnnngaaag tatacgactc actatagggc gaattgggccc ctctagatgc atgctcgagc 60
ggccgccagt gtgatggata tctgcagaat tcgcccttag cgtgggtcgcg gccgaggtag 120
ccagatgtct ttctcggtca ccttcccag accattttaag acctccctag ctgctcgctc 180
tccagcctca actgccccctt ccatgtagcc gctccacttt gtggcagctc ctgtgcccgc 240
aaagaaaatc ctgcccacgg gttgacgaat cacccttcca tattgagtca tgatcccagg 300
agggaaagtag gccgtgtagc agccccaga gtacctgccc gggcgccgcg tcgaaagggc 360
gaattccagc aactggcgcg ccgttactag tggatccgag ctcggtacca agcttggcgt 420
aatcatggtc atagctgttt cctgtgtgaa attgttatcc gctcacaatt ccacacaaca 480
tacgagccgg aagcataaag tgtaaagcct ggggtgccta atgagtgcgc taactcacat 540
taattgcgtt gcgctcactg ccgccttcc agtcgggaaa cctgtcgtgc cagctgcatt 600
aatgaatcgg ccaacgcgcc ggggagagcg ggnattgcgta ttgggcgcgc ttncgctttc 660
tngctcactg actcgtcgcg ctcggtcgtt cggctgcggc naggcgtatc agctcattaa 720
angcggtaat acggtatccn 740
```

<210> 291

<211> 724

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(724)

<223> n = A,T,C or G

<400> 291

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gnnnnnnncna ntgggcccctc tngngcatgc tcgagcggcc gccagtgatga tggatatctg 60
cagaattcgc ccttagcgtg gtcgcggcgc aggtacccag atgtctttct cggtcacctt 120
cccgagacca tttaagacct ccttagctgc tcgtttctcca gcctcaactg ccccttccat 180
gtagccgctc cactttgtgg cagtctctgt gcccgcgaaag aaaatcctgc ccacggggtg 240
acgaatcacc cttccatatt gagtcatgat ccaggaggcg aagtagggcg tgtagcagcc 300
cccagagtac ctgcccgggc ggccgctcga aaggcggaat tccagcacac tggcgccgt 360
tactagtggg tccgagctcg gtaccaagct tggcgtaatc atgggtcatag ctgtttcctg 420
tgtgaaattg ttatccgctc acaattccac acaacatacg agccggaagc ataaagtgtg 480
aagcctgggg tgcctaataa gtgagctaac tcacattaat tgcgttgccg tcaactgccc 540
ctttccagtc gggaaacctg tcgtgccagc tgcattaatg aatcggccaa cgcgcgggga 600
gaggcggttt gcgtattggg cgctcttcg cttcctcgct cactgactcg ctgcgcttng 660
nccgtccggt tgcggcagcg gtataactna ctcaaaggcg gtaataccgg tatncacaga 720
atca 724
```

<210> 292

<211> 740

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(740)

<223> n = A,T,C or G

<400> 292

gnnnnngnang	tatacgactc	actatagggc	gaattgggccc	ctctagatgc	atgctcgagc	60
ggccccgccag	tgtgatggat	atctgcagaa	ttegccctta	gcgtggctgc	ggccgaggta	120
cagaaagaat	caaagaacat	atatatatat	taagtttcat	tccaacctac	aaagagcctg	180
cacttaaaag	tcttaaaagg	ttcctgaatc	atggaatctc	aacttacctg	ccaattaatc	240
cagttctctc	tttttaaagt	cagactccaa	ccttaaacag	aaggcatatt	ctagctgact	300
tctaagtgtg	tccaaagcat	acctcagaga	gccaaagtgg	ctgtgttcaa	tacctattct	360
ttctatagaa	tctcaaaagt	ggcagtatga	tgaagagaaa	agctactttt	tctcctaaaa	420
ataccccctt	tcatcatcag	tgtgttgtca	tttttgcatc	acaaagaata	gacattctaa	480
atgttccctt	ccacacagaa	agacataaga	gagaatgtga	gtatgagtga	gagtgtgtag	540
gtaagttgag	ggatagtttg	ctatccaaaa	tgaatcattt	tgaagatgac	tttgtaaaga	600
agtaatatag	ttaaaaatct	caagacatga	gattgangan	ggcagggaaa	taaaggacct	660
angaatggaa	aagagttaca	gcccattgtga	atacatcac	aaacctacca	ggttatttct	720
gngaattctc	acacaggttg					740

<210> 293

<211> 723

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(723)

<223> n = A,T,C or G

<400> 293

gnnnnnnnncn	annggccctc	tagatgcatg	ctcgagcgcc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttagcgt	ggtcgcgccc	gaggtacaga	agaatcaaa	gaacatatat	120
atatattaaag	tttcattcca	acctacaaag	agcctgcact	taaaagtctt	aaagggtttcc	180
tgaatcatgg	aatctcaact	tacctgccaa	ttaatccagt	tctctctttt	taaatgcaga	240
ctccaacctt	aaacagaagg	catattctag	ctgactttcta	agtgtgtcca	aagcatacct	300
cagagagcca	agtgggtctgt	gttcaatacc	tattctttct	atagaatctc	aaaagtggca	360
gtatgatgaa	aagaaaaagct	actttttctc	ctaaaaatac	cccccttcac	catcagtgtg	420
ttgtcatttt	tgcatacaca	agaatagaca	ttctaaatgt	tcccttccac	acagaaagac	480
ataagagaga	atgtgagtat	gagtgagagt	gtgtaggtaa	gttgagggat	agtttgctat	540
ccaaaatgaa	tcatttttgaa	gatgactttg	taaagaagta	atatagttaa	aaatctcaag	600
agcatgagat	tganganggc	agggaaaata	angcctagga	atggaaaaga	gttaacagcc	660
catgtgaata	catagcacaa	acctaccagg	ttattttctg	gaatctnacc	agtttgctgg	720
aaa						723

<210> 294

<211> 736

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(736)

<223> n = A,T,C or G

<400> 294

gnnnnnnnnna	gaccgactca	ctatagggcg	aattggggccc	tctagatgca	tgctcgagcg	60
gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	agcggccgcc	cgggcaggta	120
cctgggatta	caggcaccca	ccaccacgcc	tggtcaattt	ttttttgtat	cttttagtagg	180
gttttgccat	gttgccagg	ctggtcttta	actcctacct	cgtgatccac	ccgcctcggc	240
ccccaaaagt	gctaggacca	caggcgtgag	ccaccacgcc	cagccccctg	tctctttttt	300
taaaacacaa	tttaaaagca	gaaagaaaaa	atctgtgctg	tttagactca	gattcttaat	360
tagctagtat	ttcttaattc	aatcaataaa	ttattaagac	cttttctactg	ctcccttttt	420
aaagtccttct	ttggagtgat	ttaagtgcct	cttattacca	agctctcaaa	gagaagataa	480

```
aattaaaaatc tgatgggtaa ccattttaa atgacaactg gggtaaccca tttctccagg 540
accctctctt gcaacagaga gctattctct tttcttggcc tagtaaacct ctgctcttaa 600
cctttaaaaa aaaaaaaaaa gtacctcggc cgcgaccacg ctaanggcga attccagcac 660
actggcggcc gtactagtgt gatccgaact cggccaact tggcgtaatc atggcatagt 720
ggttctctgng tgaan 736
```

<210> 295
<211> 725
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(725)
<223> n = A,T,C or G

```
<400> 295
gnnnnnnnnn annngccct ctagatgcat gctcgagcgg ccgccagtgt gatggatata 60
tgcagaattc gccctttcga gcggccgccc gggcaggtag ctgggattac aggcacccac 120
caccacgcct ggctaatttt tttttgtatc ttttagtagg ttttgccatg ttggccaggc 180
tggtctttta ctcctacctc gtgatccacc cgcctcgccc ccccaaagtgt ctaggaccac 240
aggcgtgagc caccacgccc agccccctgt ctctttttt aaaacacaat ttaaaagcag 300
aaagaaaaaa tctgtgctgt ttagactcag attcttaatt agctagtatt tcttaattca 360
atcaataaat tattaagacc ttttactgct tcccttttta aagtctctct tggagtgtat 420
taagtgtctt ttattaccaa gctctcaaag agaagataaa attaaaatct gatgggtaac 480
catttaataa agacaactgg ggtaacccat ttctccagga cccctctctg caacagagag 540
ctattctctt tctttggcct agtaaacctc tgctcttaac ctttaaaaaa aaaaaaaaag 600
tacctcgccc gcgaccacgc taaggcgcaa ttccagcaca ctggcgcccg ttactagtgg 660
atccgaactc ggtaccaagc ttgcgtaatc atggcatagc tggttcctgt gtgaaatggt 720
atccg 725
```

<210> 296
<211> 742
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(742)
<223> n = A,T,C or G

```
<400> 296
gnnnnnnnnn nnacaaanct gggtagggcg aattgggccc tctagatgca tgctcgagcg 60
gccgccagtg tgatggatat ctgcagaatt cgccttttcg agcggccgcc cgggcaggta 120
ccatgctgac ttcttggtat cttttaaggc ctaattttcc cttccttgag attactgtag 180
tgtgttccag ctaatttcta ttggaaaacg agttggaaca gctgaaaact aggtattatt 240
gaaggcaaac cagcctcacg tcagtttttt atcagctcat ttgggaagtt tttttttttt 300
ttttttttta attaattaga aagtaggctg ggacaggtgg ctcatgccta taatcccagc 360
acttggggag gccgaggatc tcctctcttg tggatcactt gagggcagga gtttaagagac 420
catcctggcc aacatgatga aaccctgtct ctactaaaaa tacaaaaagt agctgggcgt 480
ggtggcatat tcttacaatc ccagctactt gggaggctga ggcaggagaa tcacttgaac 540
ctaggaagca gaggttgacg tgggccaaga tcacaccact atactctagc ctgggcgaca 600
gaagtgggga aaaaagtagg acccctgtcc tatattcang gttttctcac atatatgaac 660
ccatctaaat tctacgttgg taaaaggaac ctaagggtta ttagnctata cttatttaag 720
aaccattntg gggnggagat gg 742
```

<210> 297
<211> 728
<212> DNA
<213> Homo Sapien

<220>

<221> misc_feature
<222> (1)...(728)
<223> n = A,T,C or G

<400> 297
tnnnntttga annncnacnt ctagnngcatg ctcgagcggc cgccagtgtg atggatatct 60
gcagaattcg cccttttcgag cggccgcccc ggcagggtacc atgctgactt cttgggtatct 120
tttaaggcct aattttccct tccttgagat tactgtagtg tgttccagct aatttctatt 180
tggaacacgag ttggaacagc tgaaaactag gtattattga aggcacaaagca gcctcacgtc 240
agttttttat cagctcattt gggaagtttt tttttttttt tttttttaat taattagaaa 300
gtaggctggg cacggtggct catgcctata atcccagcac ttggggaggc cgaggatctc 360
ctctctggtg gatcacttga gggcaggagt taagagacca tcctggccaa catgatgaaa 420
ccctgtctct actaaaaata caaaaagtag ctggcgctgg tggcatactc ttacaatccc 480
agctacttgg gaggtcgagg caggagaatc acttgaacct aggaagcaga ggttgcagtg 540
ggccaagatc acaccactat actctagcct gggcgacaga agtggggaaa aaagtaggac 600
ccctgtccta tattcangtt tttctcacat atatgaaccc atctaaattc tacgttggta 660
aaggtanctt aagttaatta gncatactt atttaaganc aatatggggg gaaaatggat 720
tttttttn 728

<210> 298
<211> 745
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(745)
<223> n = A,T,C or G

<400> 298
gnnnnnttna nnnnatacga ctactatat agggcgcaatt gggccctcta gatgcatgct 60
cgagcggccg ccagtgtgat ggatatctgc agaattcgcc cttagcgtgg tcgcggccga 120
ggtacccacg ttttgctcca cactccttga ccgcaggggc tcggacacaa acccctgtca 180
ccaggagagt cagtcagcac tacttgggag ggctaaaggg aaatttggaa ataaaaattcc 240
aaagtttgga gtaaaaaaat tcaagtgttg attttatatt cttcccttt ctgacacagc 300
ctaaagcgta gggggaacat gtgtttatct gtgggagata aacaagatgg agtcccaaag 360
actttaacaa aatatttttt taaaaatcca ctagaataga aaatacat tttagatata 420
ctttatgctg agagtgaagta tatatgcttg tcctatttaa acttgtgaga aaaagtggta 480
tccttgata catttagaaa tatgggggct atcttgtttc attgtggggg tggggcagaa 540
ggagaataaaa tgcaggatga ccctgttgaa ggaatcttag catggccaac aggggacgtt 600
tcagtcgat taccaggaaa tgcaagcctt ggggtttcta ctggtggtgg ggctgtcatg 660
aactttaaaa tccaaagcct agacaaggaa aagtgttaga ccaattgaaa agcaatccac 720
cctttttttt tttttttttt ggctt 745

<210> 299
<211> 733
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(733)
<223> n = A,T,C or G

<400> 299
gnnnnnnnnn nnnnnnnccct ctgatgctg ctcgaacggc cgccagtgtg atggatatct 60
gcagaattcg cccttagcgt ggtcgcggcc gaggtaccca cgttttgctc cacactcctt 120
gaccgcaggg gctcggacac aaaccctgt caccaggaga gtcagtcagc actactggg 180
agggctaag ggaaatttgg aaataaaatt ccaaagttg gagtaaaaaa attcaagtgt 240
tgattttata ttctttccct ttctgacaca gcctaaagcg tagggggaac atgtgtttat 300
ctgtgggaga taaacaagat ggagtcccaa agactttaac aaaatatttt tttaaaaatc 360
cactagaata gaaaatacat tatttagata tactttatgc tgagagttag tatatatgct 420

```

tgctcctat t aaacttgtga gaaaaagtgg tatcccttga tacatttaga aatatggggg 480
ctatcttgtt tcatttgtgg ggtggggcag aaggagaata aatgccagga tgacctgtt 540
gaaggaatct tancatggcc aacaggggac gtttccagtc gattaccagg aaatgcaagc 600
cttgggggtt ctactggtgg tggggctgtc atgaacnttt aaaatccaaa gcctagacca 660
aggaaaagtg ttaganccan tggaaaagcc attccagccc tttttttttn nnnntttttg 720
gcttttcacc aca 733

```

<210> 300

<211> 741

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(741)

<223> n = A,T,C or G

<400> 300

```

gnnnntgann gtatacgaac tcactatagg gcgaattggg ccctctagat gcatgctcga 60
gcggccgccca gtgtgatgga tatctgcaga attcgccctt tcgagcggcc gcccgggcag 120
gtacgtagtc taggccatat gtgttgaga ttgagactag tagggctagg cccaccgctg 180
cttcgcaggc ggcaaagact agtatggcaa taggcacaat attggctaag agggagtggg 240
tggtgagggg tatgagagta gctataatga acagcgatag tattattcct tctaggcaca 300
gtagggagga tatgaggtgt gagcgatata ctagtattcc tagaagtgag atggtaaattg 360
ctagtataat atttatgtaa atgaggggcc ccgcgtactc aagtgggtct ctgcctctca 420
gtggtggcct tggctctcaa gtctcagcaa ttctgggaag ccaaggacac ctccatctcc 480
tcctccctga tctgcaactc atctaagagc agctttctca ctggaatgtc ttgtgtttaa 540
ggaacaagaa tccctgtttc cggtttgggt gcccaagtgc acctactgga tccaaccag 600
gattggagat actttgcaga acacaacatc atctggcaca tgaccagcca tgggtgttca 660
ctttcacaat ttcagcttnc ttcactgatt gcagcataat cngngtcaac accttcaaga 720
ccaaggctga tgtgggccgc t 741

```

<210> 301

<211> 724

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(724)

<223> n = A,T,C or G

<400> 301

```

gnnnnntncl antgggccct ctngngcatn gctcgagcgg cagccagtg tgatggatat 60
ctgcagaatt cgccctttcg agcggccgcc cgggcaggta cgtagtctag gccatatgtg 120
ttggagattg agactagtag ggctaggccc accgctgctt cgcaggcggc aaagactagt 180
atggcaatag gcacaatatt ggctaagagg gagtgggtgt tgagggttat gagagtagct 240
ataatgaaca gcgatagtat tattccttct aggcacagta gggaggatat gagggtgtgag 300
cgatatacta gtattcctag aagtgagatg gtaaatgcta gtataatatt tatgtaaattg 360
agggggcccg cgtactcaag tgggtctctg cctctcagtg gtggccttgg tcttcaagtt 420
tcagcaattc tgggaagcca aggacacctc catctcctcc tccctgatct gcaactcatc 480
taagagcagc tttctcactg gaatgtcttg tgtttaagga acaagaatcc ctgtttccgg 540
tttgggtgcc caagtgcacc tactggatcc aaccaggat tggagatact ttgcagaaca 600
caacatcatc tggcacatga ccagccatgg tgtttcactt tcacaatttc agcttnttcc 660
actgattgca cataatcgtg gtcaacacct tcaagaccan ggctgatgtg gcccgntaca 720
ngga 724

```

<210> 302

<211> 745

<212> DNA

<213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(745)
 <223> n = A,T,C or G

<400> 302
 gnnnntgaaa gtntanacga ctactatag ggccaattgg gccctctaga tgcattgctcg 60
 agcgccgccc agtgtgatgg atatctgcag aattcgccct ttcgagcggc cgcccgggca 120
 ggtactattc cggatataca agatcactgg gagatgttga tgatggagac acagtgcacag 180
 atttcatggc ccaagagcga gaaagaggca ttactattca atcagctgct gttacatttg 240
 attggaaaagg ttatagagtc aatctaattg atacaccagg tcatgtggac ttacacctgg 300
 aggttgagcg gtgcctaaga gtgttgatg gtgcagtggc tgtatttgat gcctctgctg 360
 gtgtagagcg ccagactctc acagtatgga ggcaagctga taaacacaat atacctcgaa 420
 tctgtttttt aaacaagatg gacaaaactg gagcaagctt taagtatgca gttgaaagca 480
 tcagagagaa gttaaaggca aagcctttgc tttacagtt accaattggg gaagccaaaa 540
 ctttcaaagg agtggtggat gtagtaatga aagaaaaaact tctttggaat tgcaattcaa 600
 atgatggaaa agactttgag agaaagcccc tcttggaat gaatgatcct gaattgctga 660
 aggaaacaac tgaagcaagg aatgccttaa ttgaacaagt tgcagaattt ggatgatgaa 720
 ttgctgactt gggtttanaa naaat 745

<210> 303
 <211> 724
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(724)
 <223> n = A,T,C or G

<400> 303
 gnnnttcgan tgggcccttc tagatgcattg ctgcagcggc cgccagtgtg atggatatct 60
 gcagaattcg ccctttcgag cggccgcccg ggcagggtact attccggata tacaagatca 120
 ctgggagatg ttgatgatgg agacacagtg acagatttca tggcccaaga gcgagaaaga 180
 ggcattacta ttcaatcagc tgcgtgttaca tttgattgga aagggtatag agtcaattcta 240
 attgatacac caggtcattg ggactttacc ttggagggtg agcgggtgct aagagtgttg 300
 gatggtgcag tggctgtatt tgatgcctct gctggtgtag aggccagac tctcacagta 360
 tggaggcaag ctgataaaca caatatacct cgaatctgtt ttttaaaaa gatggacaaa 420
 actggagcaa gctttaagta tgcagttgaa agcatcagag agaagttaa ggcaagcct 480
 ttgcttttac agttaccaat tgggtgaagcc aaaactttca aaggagtggg ggatgtagta 540
 atgaaagaaa aacttctttg gaattgcaat tcaaatgatg gaaaagactt tgagagaaag 600
 ccctcttgg aaatgaatga tcctgaattg ctgaaggaaa caactgaagc aaggaatgcc 660
 ttaattgaca agttgcagat ttggatgatg aatttgctga cttggtttta gaagaattan 720
 tgag 724

<210> 304
 <211> 741
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(741)
 <223> n = A,T,C or G

<400> 304
 gnnnnnngaa agtntacgac tcaactatagg gcgaattggg ccctctagat gcatgctcga 60
 gcggccgcca gtgtgatgga tatctgcaga attcgccctt agcgtggtcg cggccgaggt 120
 actttataaa tggaattttc ttctacttgt atccatttcc cggggcttat ggaccattc 180
 atactctcca tatttagaat caaagggtcc tttctgaaga gaccttaatt ttaaggtaaa 240
 acgtggtcca agttcctgaa tteccacttt cttttcactc ctgaatatgt atctgtgaaa 300
 tctgaagaat atgtaatccc gttgattgtg gaattgtggc acctgccttc cgataaattg 360

aggattatga	ggaaagagag	atgcaaacat	acgtccaatt	gaatgaccca	gccgtgtgtg	420
aaaattattc	agaattatct	caggtatgtg	ttctgtgggg	tccttgccct	ttctcttaat	480
ttctttacga	agacgaacac	tgctcatttt	aaaatgagca	gttggggccat	ttggcaagtg	540
actcaaaata	agtccatttg	gggttttacg	atcttcatta	ataacaatca	ggtctgtgaa	600
atctcttgcg	atgcactgtg	gaataatttt	tttcagaacc	agcctcttct	gtaataaaca	660
tgtgagtttg	gtataactgt	gganagctgt	cacagagtcg	taccagtata	ccaaccatac	720
caactntgtt	gtagagcaaa	a				741

<210> 305

<211> 719

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(719)

<223> n = A,T,C or G

<400> 305

gnnnttncaa	ntgggcccct	tngatgcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttagcgt	ggtcgcggcc	gaggtacttt	ataaatggaa	ttttcttcta	120
cttgatccca	tttcccgggg	cttatggacc	cattcatact	ctccatattt	agaatcaaag	180
gttcctttct	gaagagacct	taattttaag	gtaaaacgtg	gtccaagttc	ctgaattccc	240
actttctttt	cactcctgaa	tatgtatctg	tgaatctga	agaatatgta	atcccgttga	300
ttgtggaatg	tggcaacctg	ccttccgata	aattgaggat	tatgaggaaa	gagagatgca	360
aacatacgtc	caattgaatg	acccagccgt	gttgtaaaat	tattcagaat	tatttcaggt	420
atgtgttctg	tggggtcctt	gcctcttctc	ttaatttctt	tacgaagacg	aacactgctc	480
attttaaaaa	gagcagttgg	gccatttggc	aagtgactca	aaataagtc	atttggggtt	540
ttacgatctt	cattaataac	aatcaggtct	gtgaaatctc	ttgcgatgca	ctgtggaata	600
attttttcag	agccagtcct	cttctgtaat	aaacatgtga	agtttggtat	actgtggana	660
gctgtcacag	agtcgacagt	ataccaacca	taccaactct	gttgnagaac	anaacccat	719

<210> 306

<211> 746

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(746)

<223> n = A,T,C or G

<400> 306

gnnnnntgaa	agtatacgac	tcactatagg	gcgaattggg	ccctctagat	gcattgctcga	60
gcggcccgcca	gtgtgatgga	tatctgcaga	attcgccctt	tcgagcggcc	gcccgggcag	120
gtactccagc	ccaggcgaca	gagtgagact	cagtctcaaa	aaaaaaaaaa	atttggggcaa	180
gttatagtc	atctcatagt	gttgtagga	ctaatttctt	catgtgctta	gaaaaatgcc	240
tggcagatag	gaaatggtca	atattattat	tattgataag	atgaccattt	tggagttag	300
aaaaccattt	tcaatgccta	tgaataaaca	actccataag	ccattccctt	aatccagta	360
gactgaattc	tcacaagtcc	tcactactca	tcatttctac	atcctgctga	tttaciaaata	420
cttcttcata	ccatgggtta	tgtctttgct	taatatcaag	gaggatggat	tccatggtag	480
agccaaaact	aatgatacta	cgagtctcat	tttggttaag	ataagcaaa	ccagcagcat	540
gcatggccac	caatgaacct	tttgaatcaa	acacagggga	gcccgggaag	cccaaagaaa	600
aattcagtg	cataggtaat	cacatcangg	ttgtgaacta	ttttctggaa	acttctttga	660
gtatacatat	ggacatactc	tggactttct	gcttttttag	actgaacacg	ttcctgacat	720
ttctttgctc	gctgaccctg	anggat				746

<210> 307

<211> 725

<212> DNA

<213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(725)
 <223> n = A,T,C or G

<400> 307
 gnnnnntnch antggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60
 gcagaattcg ccccttcgag cggccgcccg ggcagggtact ccagcccagg cgacagagtg 120
 agactcagtc tcaaaaaaaaa aaaaaatttg ggcaagttat agtccatctc atagtgttgt 180
 taggactaat ttcttcatgt gcttagaaaa atgcctggca gataggaaat ggtcaatatt 240
 attattattg ataagatgac cattttggag tttagaaaac cattttcaat gcctatgaaa 300
 taacaactcc ataagccatt cccctaaatc cagtagactg aattctcaca agtcctcatc 360
 actcatcatt tctacatcct gctgatttac aaatacttct tcataccatg gtttatgtct 420
 ttgcttaata tcaaggagga tggattccat ggtagagcca aactcaatga tactacgagt 480
 ctcatttttg taagtataag caaagccagc agcatgcatg gccaccaatg aaccttttga 540
 atcaaacaca ggggagccgg aagcccaaaa gaaaaattca gtgtcatagg taatcacatc 600
 anggttgtga actattttct ggaaacttct ttgagtatac atatggacat actctggact 660
 ttctgctttt ttagactgac acgttcctga catttctttg ctgctgacc ctgagggatc 720
 acang 725

<210> 308
 <211> 744
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(744)
 <223> n = A,T,C or G

<400> 308
 gnnnnntgaaa gtaatacgac tcaactatagg gcaattggg cccctctagat gcatgctcga 60
 gcggccgcca gtgtgatgga tatctgcaga attcgccctt tcgagcggcc gcccgggcag 120
 gtacgcgggg tgacaagtag caacatggct tgggtccctt gtgcagcatc agcttatgct 180
 gccacaagtc agtttgcacc ctagggtacc aggagctagt atccttagat ctttctatcg 240
 ctaacttaat tctcttcggt atttatctga cccctaaact ccatgtctaa ctgtgattaa 300
 aaaaaaaaaa attctttaca gtcaacccaa gcttaacatg gactcagggt cccagcagc 360
 cttaatttgt tttgtaaca tctgttcctt ctttttcagc tctcctagag tatttctgag 420
 tgtgtgttc atctaactct agtattcttt taattacaaa ttgacctcac agcttgaggt 480
 ttctgtgtc ttattctgtg gactacctgt gctcctttgc ttccctccc ctgcataat 540
 aactatatta agaaattttt tttggccttg agttggctgg aaaaaaata taaaatttaa 600
 aaaaaaaaaa nnnnnnnnaa aaaaaaaaaa gttcctnggc gggaccacgc taangcgaa 660
 ttccagcaca ctggcgccg ttaactaagt gatccgaact cggtaaccaac ttggcgtaat 720
 catggcatag ctggttctct ngga 744

<210> 309
 <211> 746
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(746)
 <223> n = A,T,C or G

<400> 309
 gnnnnntneca ntgggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60
 gcagaattcg ccccttcgag cggccgcccg ggcagggtac cggggtgaca agtagcaaca 120
 tggcttgggt cccctgtgca gcatcagctt atgctgccac aagtcagttt gcaccctagg 180
 taccagggag ctagtatcct tagatctttc tatcgctaac ttaattctct tcgttattta 240
 tctgaccctc taactccatg tctaacttgc attaaaaaaa aaaaaattct ttacagtcac 300
 cccaagctta acatggactc aggttcccca gcagccttaa tttgtttgt taacatctgt 360

```

tccttctttt tcagctctcc tagagtattt ctgagtgttg tgttcatcta atcttagtat 420
tcttttaatt acaaattgac ctcacagctt gaggtttcct gtgtcttatt ctgtggacta 480
cctgtgctcc tttgcttccc ctcctctcgc ataataacta tattaagaaa ttttttttgg 540
ccttgagttg gctggaaaaa aaatataaaa tttaaaaaaa aaannnnnnn nnnnaaaaaa 600
aaaagtcctt ggccgggacc acnctaangg cgaaattcca gcacaactgg gcgggccgtt 660
actaagggga atccnaact tnggnaccn aaacttgggc gtaaaacaat gggncataaa 720
gctggnnncc ctgnggtga aaaatt 746

```

```

<210> 310
<211> 751
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

```

```

<400> 310
gnnnntgana gtaatacgac tcactatagg gcgaattggg cctcttagat gcatgctcga 60
gcggccgcca gtgtgatgga tatctgcaga attcgccctt tcgagcggcc gcccgggcag 120
gtacttaatg cctttctcct cctggacatc agagagaaca cctgggtatt ctggcagaag 180
tttatatttc tccaaatcaa tttctggaaa aaacgtgtca ctttcaaagt cttgcatgat 240
ccttgtcaca aatagtttaa gatggcctgg gtgattcatg gcttccttat aaacagaact 300
gccaccaact atccagacca tgtctacttt atttgctaatt tctggttgtt cagtaagttt 360
taaggcatca tctagacttc tggaaaagaaa atgagctcct tgtggaggtt ccttgagttc 420
tctgctgaga actaaattaa ttctaccctt taaaggtcga ttcttctcag gaatggagaa 480
ccagggtctt ttaccataaa tcaccagatt ctgnttacct tctactgaag aagttgtggg 540
cattctctgg aaatatctga attcattcct gagcgggtgg caaggcangt ncccgttctt 600
gccgatgccc atgttctggg acacagcgac gatgcagtt agcgaaccaa ccatgacagc 660
aaccgggag accttcgagc cccgttcgnt acaagccccc gcgtaccttn gggccngaa 720
cacgcttaag ggcgaattnc aacacactgg c 751

```

```

<210> 311
<211> 724
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(724)
<223> n = A,T,C or G

```

```

<400> 311
gnnttncnan tgggccctct agatgcagtc tcgagcggcc gccagtgtga tggatatctg 60
cagaattcgc cctttcgagc ggccgcccgg gcagggtactt aatgcctttc tcctcctgga 120
catcagagag aacacctggg tattctggca gaagtttata tttctccaaa tcaatttctg 180
gaaaaaacgt gtcactttca aagtcttgca tgatccttgt cacaataagt ttaagatggc 240
ctgggtgatt catggcttcc ttataaacag aactgccacc aactatccag accatgtcta 300
ctttatttgc taattctggg tgttcagtaa gttttaaggc atcatctaga cttctggaaa 360
gaaaatgagc tccttggtga ggttccttga gttctctgct gagaactaaa ttaattctac 420
cctttaaaagg tcgattcttc tcaggaatgg agaaccagggt cttcttacct ataataacca 480
gattctgttt accttctact gaagaggttg tggtcattct ctggaaatat ctgaattcat 540
tcctgagcgg tggccaaggc angtecccg tcttgccgat gcccatgttc tgggacacag 600
cgacgatgca gtttancgaa ccacccatga cagcagcggg aggaccttcg agcccgctcg 660
ttacaagccc ccgcgtacct tnggccgcga acaccttang gcgaaattca acacactggc 720
ggcc 724

```

```

<210> 312
<211> 738
<212> DNA
<213> Homo Sapien

```

<220>
 <221> misc_feature
 <222> (1)...(738)
 <223> n = A,T,C or G

<400> 312
 nnnntttgaa gnctacnact cactataggg cgaattgggc cctctagatg catgctcgag 60
 cgggccgccag tgtgatggat atctgcagaa ttccgccctt gagcgccgc ccgggcagggt 120
 acgcgggggg cagacatggc gacattgaca gtggtccagc cgctcaccct ggacagagat 180
 gttgcaagag caattgaatt actggaaaaa ctacaggaat ctggagaagt acgttcacta 240
 attatctaca aggacaaaat cagttgtatt taaaaaactc tacttcagtg tttgttttag 300
 tttttttttt actgaaactt gtttttgtga atactctgtg cttagaatta aatatcactt 360
 tcttatgaac aacataactt cttcagattg tgtatatgaa aacattagca agtcttggtt 420
 tttctatgaa gcaaacacaa ttggtgacaa aggttgtcaa tcatttcttc aaaattataa 480
 tgcagttcta atggtcagca tattttgata tttaaatttaa agatcacctc tctgcatttg 540
 tttttaaatt atgctaatac accacacatt atgttggtat gttttggtct gtctcggcc 600
 gcgaccacgc ttanggcgaa ttccagcaca ctggcgggccc gttactagtg gatccgagct 660
 cggccaagc tggcgtaatc atggtcatag ctggttctctg tgtgaaatgg tatccgttac 720
 aattcccaca catacgan 738

<210> 313
 <211> 720
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(720)
 <223> n = A,T,C or G

<400> 313
 gnnttncaan tgggccctct agatgcattc tcgagcgggc gccagtgatg tggatatctg 60
 cagaattcgc cctttgagcg gccgcccggg caggtacgcg gggggcagac atggcgacat 120
 tgacagtggg ccagccgctc accctggaca gagatgttgc aagagcaatt gaattactgg 180
 aaaaactaca ggaatctgga gaagtacgtt cactaattat ctacaaggac aaaatcagtt 240
 gtattttaca aactctactt cagtgtttgt ttttagtttt tttttactga aacttgtttt 300
 tgtgaatact ctgtgcttag aattaaatat cactttctta tgaacaacat aacttcttca 360
 gattgtgtat atgaaaaacat tagcaagtct tgttttttct atgaagcaaa cacaattggg 420
 gacaaagggt gtcaatcatt tcttcaaaat tataatgcag ttctaattgg cagcatattt 480
 tgatattaaa tttaaagatc acctctctgc attgttttt aaattatgct aatacaccac 540
 acattatggt ggtatgtttt gntctgtacc ctggccgcca ccacgctaen ggcgaattca 600
 ncacactggc ngncgttact agtggatccg agctcggacc aaacttggcg taatcatngn 660
 catagctggt tctgtgtgta aaatggtatc cgttacaatt tcacacacat acgagccgga 720

<210> 314
 <211> 740
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(740)
 <223> n = A,T,C or G

<400> 314
 gnnntttnaa gnctacgact cactataggg cgaattgggc cctctagatg catgctcgag 60
 cgggccgccag tgtgatggat atctgcagaa ttccgccctt gcgtgggtcg ggccgaggta 120
 cttttttttt tttttttttt ttagtgcttt ctactttatt aaacatcaaa gccc aaatag 180
 atgttccctg tggaggagga cttaaggaca ctaggggagg agaaaggagc acctgggaag 240
 agaatcacac cacagagacc aatcttcaca aaaagggtcc aatattgatt tctagggagg 300
 agcagggcat ggtcagctca aatttggtga taacgtcagg atgaaggacc ccaagcttcc 360

```

cgacgctttg acccctggca aagatctctg cacatcgccc ggggaagaaa gcaggccctt 420
ctgatgcttt gatcacatat ccccccttgt cttcaccagg aggcacatcg agcaactgca 480
taattctgtc cagcagccca tgaatgatct caaaccagg attcttgntg taataaacag 540
cactgagatg tctgtagttt ttgacaccta catctgnatt agaactcttt attacaatgt 600
cagagatttc aaacagtttc agtgaagg gcatcttacg attgctgcta tggttcagg 660
angccaggaa gaaggtagt gcgtgccacc tgaaattcac tggtttagga tacttatgtg 720
gactggcttt gttgcaaaan

```

```

<210> 315
<211> 722
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(722)
<223> n = A,T,C or G

```

```

<400> 315
gnnnnnnnnn nnnnnntnn atgctgctcg agcgccgccc agtgtgatgg atatctgcag 60
aattcgccct tagcgtgggc gcggccgagg tacttttttt tttttttttt ttttagtgct 120
ttctacttta ttaaacatca aagcccaaat agatgttccc tgtggaggag gacttaagga 180
cactagggga ggagaaaggg acacctggga agagaatcac accacagaga ccaatcttca 240
caaaaagggt ccaatattga tttctagga ggagcagggc atggctcagct caaatttggt 300
gataacgtca ggaatgaagg cccaagctt ccgacgctt tgaccttg ccaagatctc 360
tgacatcgcc cgggggaaga aagcaggccc ttctgatgct ttgatcacat atccccctt 420
gtcttcacca ggaggcacat cgagcaactg cataattctg tccagcagcc catgaatgat 480
ctcaaaccca ggattcttgt tgtaataaac agcactgaga tgtctgtagt tttttgcacc 540
tacatctgna ttagaatctt ttattacaat gtcagagatt tcaaacagtt tcagtggaaa 600
ggggcatctt acgatttgct gctatggntc tcangaggnc angaaaaagg gtantgcntg 660
ccctgaaat tcanctggtt taggattacc tatgtggact ggctttgntg caaaaaaatn 720
cn

```

```

<210> 316
<211> 753
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

```

```

<400> 316
gnnnnnttna nagtnnnnac gactcactat aggggcgaac nctctncatg catgctcnan 60
cggnccnncan ngatgatgat atntgctgan ttgcacctta cntngcntn ggccgaggcg 120
cagntccac gtntngctcc ncactncnnn accgcagggg cncngacnncn gaccngngnn 180
ncnnngngag tncncagca ctacttgga nggctanagg gaagnttga aataaaattc 240
caaannttg agtaaaagca atncangcgn ngattatata tgnntnccct ttctgacacn 300
ncctagagcg taggggaac atngntntat ctgtgggana tnaacaagat ggagtcccaa 360
agactttaac aaagntattt cttannatc cncataaatn nanaatncat tattcatatn 420
tactntatgc tgnnagttag tatntatgct ngctctattt aaacttgnga gaanaagtgg 480
tntcccttga tacattnaga aatatggggg ctatcttgnt ncattgtggg ggtggggcan 540
aagganaatn aatgcangag gaccctgttg aangaatctt aacatggcca acanggggac 600
ngtttacagt cgattaccag gaaangcaag ccttgggggt tctactgcn gttggggctg 660
tcatgaactt naaaatccan agnctatacc aggaaaaagt gttangaccc aattgaaang 720
ctntccaccc tttctttttn tttgttcng cnc

```

```

<210> 317
<211> 893
<212> DNA
<213> Homo Sapien

```

<220>
 <221> misc_feature
 <222> (1)...(893)
 <223> n = A,T,C or G

<400> 317
 gtgnnnntntn cnaaatggnc cntttnaatg cctncctcga gcgggcccgc agtgtgatgg 60
 atntntaatt cgncccttagc gtggctcgcgg ccgnggtacn aangaaataa aantnacagt 120
 ntcaaagaac caaantaagt cggacacaaa cccctgtcac cannagagtc ccatanacat 180
 aannnggntg ntgtcaagna ggattnaaat taactttaac aacnttntat ataagtctac 240
 attccccaat taataaagga nagttcacat atacanctaa ntgntaattg tggaaanaag 300
 ggtgaaantn tgcatannta atannaaana atgctgaang cttttncata nnattnnctt 360
 aaaaatncac ttncnatgca gcantangtn tacatgctta atntatcntg cnagtgattn 420
 ntatgcttgt cctacatgac ntaccttgaa caactggnc tncacagatt catactgaaa 480
 tatggggncg ntaantatnt tgggancggn annacntgaa tcctcaaagg atannnnntn 540
 tccagntgga tgaaaccnat nattnaaang gatatnntna accatnggan cgaatgnncg 600
 nngntctttt tcaatnntnc gngaagntnc cnnttnnata nccccggggc cncattgngg 660
 ggnntatntn ncaatcaann ccnngagntg tntnntcntt cntcnaccgc ataacctttt 720
 gccataggga acctnttttn aacccttttg gnttatnggg aaanaannnn nnttttaaat 780
 tcncaaaaat ngggaaaaan aacccttntc actctaaaaa nttancnta gacctanttn 840
 tngngncata tttgntaaac nctatggnc ctcnagnggg gnnctgggnc nnc 893

<210> 318
 <211> 744
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(744)
 <223> n = A,T,C or G

<400> 318
 gnnnngattg tatacgactc actatagggc gaattggggc ctctagatgc atgctcgagc 60
 ggccgccagt gtgatggata tctgcagaat tcgccccttc gagcgccgc ccgggcaggt 120
 acctcattag taattgtttt gttgtttcat ttttttctaa tgtctccct ctaccagctc 180
 acctgagata acagaatgaa aatggaagga cagccagatt tctcctttgc tctctgctca 240
 ttctctctga agtctaggtt acccattttg gggaccatt ataggcaata aacacagttc 300
 ccaaagcatt tggacagttt cttgttgtgt tttagaatgg ttttcccttt tcttagcctt 360
 ttcttgcaaa aggtcactc agtcccttgc ttgtcagtg gactgggctc cccagggcct 420
 aggtgcctt cttttccatg tcccacccat gagccctcca ctggacagct cagtaagcct 480
 ggcccttcat tctgcgctgt gttcttctc tgtgaaaatc caatacctct tacctcctct 540
 gcatgcaaag attctcaagg attgtcagac ttcaaacgta acagcagaac caccagaagg 600
 tcctataaat gcagtagtga ctttctcaag ctgtcanggc tttaaatagg atttgggatt 660
 taatgctatg tattttttaa ggaaagaaat aagagttgct agttttaaaa atgcatgtct 720
 tttaccaatt canaatctgg cccc 744

<210> 319
 <211> 720
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(720)
 <223> n = A,T,C or G

<400> 319
 gngtttaaac cttcttanng ctgctcgagc ggccgccagt gtgatggata tctgcagaat 60
 tcgccccttc gagcgccgc ccgggcaggt acctcattag taattgtttt gttgtttcat 120
 ttttttctaa tgtctccct ctaccagctc acctgagata acagaatgaa aatggaagga 180

cagccagatt	tctcctttgc	tctctgctca	ttctctctga	agtctaggtt	acccattttg	240
gggacccatt	ataggcaata	aacacagttc	ccaaagcatt	tggacagttt	cttggtgtgt	300
tttagaatgg	ttttcctttt	tcttagcctt	ttcctgcaaa	aggctcactc	agtcctttgc	360
ttgctcagtg	gactgggctc	cccagggcct	aggctgcctt	cttttccatg	tcccacccat	420
gagccctcca	ctggacagct	cagtaagcct	ggcccttcat	tctgcgctgt	gttcttcctc	480
tgtgaaaatc	caatacctct	tacctcctct	gcatgcaaaag	attctcaagg	attgtcagac	540
ttcaaacgta	acagcagaac	caccagaagg	tcctataaat	gcagtagtga	ccttctcaag	600
ctgtcanggc	tttaaatagg	atttgggatt	taatgctatg	tattttttaa	ggaaagaaat	660
agagttgcta	gttttaaaaa	tgcatgtctt	ttaaccaatt	cagaatctgg	ccccnaactt	720

<210> 320

<211> 694

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(694)

<223> n = A,T,C or G

<400> 320

atgctcgagc	ggncggcant	gtgatggatn	tctgcagaat	tcgccctttc	gagcggccgc	60
ccgggcaggt	actattccgg	atatacaaga	tcactgggag	atggtgatga	tggagacaca	120
gtgacagatt	tcattggccc	agagcgagaa	agaggcntta	ctattcaatc	agctgctggt	180
acatttgatt	ggaaaggtta	tagagtcaat	ctaattgata	caccaggtca	tgtggacttt	240
accttggagg	ttgagcgggtg	cctaagagtg	ttggatgggtg	cantggctgt	atttgatgcc	300
tctgctgggtg	tagaggcccc	gactntcaca	gtatggaggc	aagctgataa	acacaatata	360
cctcgaatct	gtttttttaa	caagatggac	aaaactggag	caagctttta	gtatgcagtt	420
gaaagcatca	gagagaagtt	aaaggcaaaag	cctttgcttt	tacagttacc	aattggtgaa	480
gccaaaactt	tcaaaggagt	ggtggatgta	gtaatgaang	aaaaacttct	ttgggaattg	540
caattcaana	tgatggaaaa	gactttgaga	gaaagccctt	cttggaatg	aatgatcctg	600
aattgctgaa	ggaaacaact	gaacaaggaa	tgcccttaatt	gaacaaagt	gcagatttgg	660
atgatgaatt	tgctgacttg	gttttaagaa	gaat			694

<210> 321

<211> 781

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(781)

<223> n = A,T,C or G

<400> 321

gngttnacna	ntgggcccctc	tngatgctgc	tcgagcggcc	gncagtggtga	tggatntctg	60
cagaatncgc	cctncgggog	gccgnccggg	caggtactat	nccgatatata	caagatcact	120
gggagatggt	gatgatggag	acncagnagc	agatttcatg	gcccagagac	gagaaagagg	180
cnttactatn	caatcagctg	ctgttacatt	cgattggaaa	ggttatngag	tcaatctaata	240
tgatncacca	ngtnatgtgg	actttacctt	ggaggttgag	cggtgcctaa	nagtgttggg	300
tggtgcannng	gctgtatttg	atgcctctgc	tggtgtagag	gcccagactc	tcacagtagt	360
gatgcaagct	gataaacaca	atatacctng	aatctgtggt	ttaaacaaga	tggacaaaac	420
tggagcaagc	tttaaagtnt	gcagttgaaa	gcatcagaga	gangttnaag	gcanagcctt	480
tgcttttaca	gtttcccaat	tgggtgaaac	ccaaaacttt	tcaaaggagg	ttggttggat	540
tgtaagtaat	gaaaggaaaa	acttcttttg	gaaantggca	atttcaanat	gattggaaaa	600
ngacttttgg	gagaaaaagcc	ccttcttggg	aaaatngaaa	tgatncctga	aatttgcngt	660
aaanngaaaa	cnaacntgna	atccaangga	attncctttt	aanttggaac	aaaggnttgc	720
naanttttng	attgaathga	atttgnncng	cnttngggtt	ttangaaaga	aattaaagng	780
g						781

<210> 322

<211> 744

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(744)

<223> n = A,T,C or G

<400> 322

gnnntganag	tatcgactca	ctatagggcg	aattggggccc	tctagatgca	tgctcgagcg	60
gccccccagt	gtgatggata	tctgcagaat	tcgccctttc	gagcggccgc	ccgggcaggt	120
acgcggggac	tgggtttttc	tccttttgta	gccttttctc	ttagtctcct	cttcccgggtg	180
gttggtaaaa	agaggtgaat	tgacagccta	tggtgaagac	actgtgcttt	tctcaagaag	240
gacatccaaa	cagcaagtct	acttctttct	ctttaacgat	gtgctcatta	tcaccaagaa	300
gaagagtgaa	gaaagttaca	acgtcaatga	ttattcctta	agagatcagc	tattggtgga	360
atcttgtgac	aatgaagagc	ttaattcttc	tccaggggaag	aacagctcca	caatgctcta	420
ttcaagacag	agctctgcca	gtcacctctt	tactctgaca	gtccttagta	accacgcgaa	480
tgagaaagtg	gagatgctac	taggagctga	gacgcagagc	gagcgagccc	gctggataac	540
tgccctggga	cacagcagcg	ggaagccgcc	tcgagaccga	acctnactga	cccaggtgga	600
aatcggtagg	tcattttactg	ctaagcagcc	agatgaactc	ttcctgcagt	ggctgacgtc	660
gtcctcatct	atcaacgtgt	cagcgatggc	tggtatgaag	gggaacgact	tcgagatgga	720
gaaagaagnt	gggttcctat	ggaa				744

<210> 323

<211> 723

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(723)

<223> n = A,T,C or G

<400> 323

gtgtttcaan	cggtcctcta	gatgctgctc	gagcggccgc	cagtgtgatg	gatatctgca	60
gaattcgccc	tttcgagcgg	ccgccccggc	aggtacgcgg	ggactgggtt	tttctccttt	120
tgtagccttt	tccttttagtc	tcctcttccc	ggtggttggt	aaaaagaggt	gaattgacag	180
cctatgttga	agacactgtg	cttttctcaa	gaaggacatc	caaacagcaa	gtctacttct	240
ttctctttaa	cgatgtgctc	attatcacca	agaagaagag	tgaagaaagt	tacaacgtca	300
atgattattc	cttaagagat	cagctattgg	tggaaatctg	tgacaatgaa	gagcttaatt	360
cttctccagg	gaagaacagc	tccacaatgc	tctattcaag	acagagctct	gccagtcacc	420
tctttactct	gacagtcctt	agtaaccacg	cgaatgagaa	agtggagatg	ctactaggag	480
ctgagacgca	gagcgagcga	gccccgtgga	taactgccct	gggacacagc	agcgggaagc	540
cgctgcagac	cgaacctcac	tgacctcaggt	ggaaatcggt	aggtcattta	ctgctaagca	600
gccagatgaa	ctcttctctg	angtggctga	cgctgctctc	atctatcaac	gtgtcancga	660
tggtggtatg	aaggggaacg	actacnagat	ggagaaagaa	gctgggtttcc	tatggaatgt	720
gcc						723

<210> 324

<211> 746

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(746)

<223> n = A,T,C or G

<400> 324

gggnntgaag	ncncgactca	ctatagggcg	aattggggccc	tctagatgca	tgctcgagcg	60
gccccccagt	gtgatggata	tctgcagaat	tcgcccttag	cgtggtcgcg	gccgaggtac	120
cttgagatct	gagcaactgt	gttaatgaag	taatagcaat	ggtccacagt	gaaagatgtg	180

ttgggggtttg	caaaacaagc	attccgtcac	ctctttaata	atgtcacaga	cttttttaaa	240
agagaggcta	tcaagttgta	atataaatctg	tcattgttta	tttaggaagg	aaggtaaatt	300
tgtgcttgca	cggggatcat	tttgtattat	ttntgcta	atccagttga	agctaaaaag	360
caactatttg	aatcctgtga	attaatttat	aagaatgta	aacagctntg	gaaatacatg	420
catcttatga	atcatagcct	tatttagcaa	gatcaatgtt	aaagtgttga	tatatggcaa	480
gtatttaaca	cattcacagt	gntagtttga	tttcaactgt	gaattgtctt	acagtttttt	540
caaacctagt	gtntctatgg	acacctgctc	tgaattgtac	ccctcagtca	ccaccaaaagc	600
attnncaccc	ctttcaaccc	ccaatcagac	cantgcttcc	agtgggtattg	gaggacttnt	660
atcacagctt	catnangtgg	tcttggcaca	ggcagntcga	ctngcttngg	aactgggtgct	720
tttggaactcc	cttcaanngn	aatant				746

<210> 325

<211> 742

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(742)

<223> n = A,T,C or G

<400> 325

gtgtttcann	cggccctcta	gatgcacgt	cgagcggccc	gccagtgtga	tggatatctg	60
cagaattcgc	ccttagcgtg	gtcgcggccg	aggtaccttg	agatctgagc	aactgtgtta	120
atgaagta	agcaatggc	cacagtga	gatgtgttgg	ggtttgcaa	acatgcattc	180
cgtcacctct	ttaataatgt	cacagacttt	tttaanagag	aggctatcaa	gttgtnatat	240
aatctgtcat	gtattattta	agaaggaagg	taaatntgtg	cttgacggg	gatcattttg	300
nattattnct	gctnatatcc	agctgaagct	nanaancnac	tnnttgnatc	ctgtgantta	360
atncatanna	atgttanaca	gctntggaaa	tccatgcctc	ttatgaatca	tngccttatt	420
tancangatc	aatgttaaag	ntgttgatat	nnggcaagtn	tnaaacacat	tnacantgct	480
agtntgattt	caactgngaa	ttgncttacc	gtnttttnaa	acctananga	atntatngac	540
acctnctctn	aatngnnncc	ctcaancacc	acnaaanctt	ttncnnccct	tncaaccccc	600
natcngaccn	cngcattcag	tnngaancng	aangactttc	atcacaaactg	gncaanatnt	660
nggacttttg	cgccatgcnn	accctcttgg	nctttngaac	nnggttgcc	tttnggactt	720
tnncctgng	ngataaccac	cn				742

<210> 326

<211> 747

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(747)

<223> n = A,T,C or G

<400> 326

atgnttttaag	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggccgccagt	gtgatggata	tctgcagaat	tcgccctttc	gagcggccgc	ccgggcagggt	120
actgtatcat	tggcagatgt	gacgtcaccc	acaaccagag	tgaagtggcg	gacaaaactg	180
aggattacct	gtggctgaag	ttgaaccaag	tgtgttttga	cgacgatggc	accagctccc	240
cacaagacag	gctcactctc	tcacagtctc	agaagcagtt	gttggaagac	tatggcgagt	300
cccactttac	ggtgaaccag	caacccttcc	tctacttcca	agtccctgtc	ctgacagcgc	360
agtttgaagc	agcagttgcc	tttcttttcc	gcatggagcg	gctgcgctgc	catgctgtcc	420
atgtagcact	ggtgctgttt	gagctgaagc	tgcttttaaa	gtcctctgga	cagagtgtct	480
aactcctcag	ccacgaacct	ggtgacctt	cttgcttgcg	gcggctgaac	ttcgtgcggc	540
tcctcatgct	gtacctcggc	cgngaccacg	ctaagggcga	attccagcac	actggcggnc	600
gttactagt	gatccgagct	cggtaccaa	cttggcgtaa	tcattggncat	agctgggtcc	660
tgtgtgaaat	ggtatccgtt	acaatttcac	acaacatacg	agccgggaag	catnaagtgt	720
naaacctggg	gtgcctnatg	agtgacn				747

<210> 327

<211> 724
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(724)
<223> n = A,T,C or G

<400> 327
gtnatgaaac cnttctntng ngcatgctcg agcggccgcc agtgtgatgg atatctgcag 60
aattcgccct ttcgagcggc cgcccgggca ggtactgtat cattggcaga tgtgacgtca 120
ccgacaacca gagtgaagtg gcggacaaaa ctgaggatta cctgtggctg aagttgaacc 180
aagtgtgttt tgacgacgat ggcaccagct cccacaaga caggctcact ctctcacagt 240
tccagaagca gttgttggaa gactatggcg agtcccactt tacgggtgaa cagcaaccct 300
tcctctactt ccaagtcttg ttcttgacag cgcagtttga agcagcagtt gcctttcttt 360
tccgcatgga gcggctgcgc tgccatgctg tccatgtagc actgggtgctg tttgagctga 420
agctgctttt aaagtctctt ggacagagtg ctgagctcct cagccacgag cctgggtgacc 480
ctccttgctt gcggcggctg aacttcgtgc ggctcctcat gctgtacctc ggccgcgacc 540
acgctaaggg cgaattccag cacactggcg gccgttacta gtggatccga gctcgggtacc 600
aagcttgccg taatcatggt catagctgtt tcctgtgtga aattgtatcc gctcacaatt 660
ncacacaaca tacgagccgg aagcataaag tgtaaaacct ggggtgccta atgagtgaac 720
taan 724

<210> 328
<211> 747
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 328
tgnntgttag atagactca ctataggcg aattgggccc tctagatgca tgctcgagcg 60
gcccgccagt gtgatggata tctgcagaat tcgcccttag cgtggctcgc gccgaggtac 120
tttttttttt ttttttaaag acagagtctt gctctgtcac ccaggctgga gtgcagtggc 180
acgatctcgg ctactgcaa gctctgcctc ccgggttcac gccattctcc tgcctcagcc 240
tcccagtag ctgggactac aggtgcccgc caccatgccc ggctgatttc tttttgtatt 300
tttagtagag acggagtttc accgtgttag ccaggatggt ctcgatctcc tgacctcgtg 360
atccgccgcg cttggcctcc aaagtgctgg gattacaggt gtgagctacc gcgcccggcc 420
tattatcttg tactttctaa ctgagccctc tattttcttt attttaataa tatttctccc 480
cacttgagaa tcacttgta gttcttggtg ggaattcagt tgggcaatga taacttttat 540
gggcaaaaac attctattat agtgaacaaa tgaaaataac agcgattttt caatattttc 600
ttattcctta aattccactc ttttaacact atgcttaacc acttaatgtg atgaaatatt 660
cctaaaagt aaatgactat taaagcatat attggtgcat gnataatata aagtaccgca 720
tactctaaat aaaaatccac tggtcen 747

<210> 329
<211> 725
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(725)
<223> n = A,T,C or G

<400> 329
gcgtttcaan tgggccctct ngngcatgct cgagcggccg ccagtgtgat ggatatctgc 60
agaattcgcc cttagcgtgg tcgcgccgca ggtacttttt tttttttttt taaagacaga 120

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gtcttgcctc gtcacccagg ctggagtgcg gtggcaccgat ctgggctcac tgcaagctct 180
gcctcccggg ttcacgcat tctcctgcct cagcctcccg agtagctggg actacaggtg 240
cccgccacca tgcccggtg atttcttttt gtatttttag tagagacgga gtttcaccgt 300
gttagccagg atggtctcga tctcctgacc tcgtgatccg cccgccttg cctccaaagt 360
gctgggatta cagggtgtgag ctaccgcgcc cggcctatta tcttgactt tctaactgag 420
ccctctattt tctttatttt aataatattt ctcccactt gagaatcact tgtagttct 480
tggtaggaaat tcagttgggc aatgataact tttatgggca aaaacattct attatagtga 540
acaaatgaaa ataacagcgt attttcaata tttcttatt ccttaaattc cactctttta 600
acactatgct taaccactta atgtgatgaa atattcctaa aagttaaatg actattaaag 660
catatatggg tgcatgtata tattaagtag cccgatctct naataaaaaat ccactggtac 720
agata 725

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<210> 330

<211> 741

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(741)

<223> n = A,T,C or G

<400> 330

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gnnntganag atacgactca ctatagggcg aattggggccc tctagatgca tgctcgagcg 60
gcccggcaggt gtgatggata tctgcagaat tcgccccttag cgtgggtcgcg gccgaggtac 120
tttttttttt tttttttttt tttttttttt ggaagtttaa tttactcaca gttcaacatg 180
gctggggagg cctcaggaaa tttaacatta taacagaagg caaaggggaa gccagatacc 240
ttcttcacaa ggtggcagga aggagaagag ccgagagaag gcggaagaat cccttataaa 300
accatcagat ctggtgagaa ctcaactgct acaggagaa cagcatgggg gaaccgcccc 360
caggattcaa tgacctncac ctggtctctc ccttgacacg tgaggattat ggggattaca 420
attccagatg agatttgggt ggggacacaa agccaaacca tatcaactgt gactaccttg 480
ggtaagggcc atccaggcag aggcaggggg aacattcttg gcaaaggcct tggggcaggg 540
gcctgggtatg ttcagatagc ancaagtagg ccagantggc cggaggggag taagtgtggg 600
gaggccagtg ganagatgag ggtagggaag ggatggatca gatcatgcag ggccccgggg 660
gccacaggaa ngacctnagc atttactgca agtaangtgg gaaccatcga atgtctaagc 720
naggaggaat ccctgtgact c 741

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<210> 331

<211> 727

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(727)

<223> n = A,T,C or G

<400> 331

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gtnnnnnegan ngggccctct agatgcatgc tcgagcggcc gccagtgtga tggatatctg 60
cagaattcgc ccttagcgtg gtcgcggccg aggtactttt tttttttttt tttttttttt 120
ttttttggaa gtttaattta ctcacagttc aacatggctg gggaggcctc aggaaattta 180
caattataac agaaggcaaa ggggaagcca gataccttct tcacaagggt gcaggaagga 240
gaagagccga gagaaggcgg aagaatccct tataaaacca tcagatctcg tgagaactca 300
cttgctatca ggagaacagc atgggggaac cgccccagg attcaatgac ctccacctgg 360
tctctccott gacacgtgag gattatgggg attacaattc cagatgagat ttgggtgggg 420
acacaaagcc aaaccatata aactgtgact accttgggta agggccatcc aggcagaggc 480
agggggaaca ttctgggcaa aggccttggg gcaggggcct ggtatgttca gatagcagca 540
agtaggccag antggccgga ggggagtaag tgtggggagg ccagtggaaa aatganggta 600
gggaaaggga tggatcagat catgcagggc cccgggggcc acangaagga cctnacattt 660
actgcaagta angtgggagc catggaatgt tctaagcana ngangaatcc ctgnagactca 720
ngtgttn 727

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<210> 332
 <211> 734
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (734)
 <223> n = A,T,C or G

<400> 332
 gnntganagt atacgactca ctatagggcg aattggggccc tctagatgca tgctcgagcg 60
 gcccgccagt gtgatggata tctgcagaat tcgccctttc gagcgggccgc ccgggcaggt 120
 accctttctcg cttttgccat tagccaagga tagaagctgc agtggtatta attttgatat 180
 aatcttttcaa accagcttca tgtggcttcc cttttctttg ttcaagatga gggccaggag 240
 gggaaacatc acacctgccc taaacctgt tcttgagggt cagcatttga tctgttgcaa 300
 gccctctttt ctgtccctc ttcctaccct gcctcccatg actttgctcc tcacactttt 360
 ggaaccatgc cttccggggg ggcccatctc ttctggccgt ccttgtctct gggccacttg 420
 gagtgtgtga taaatcagtc aagctgttga agtctcagga gtctctggta gcctgcagaa 480
 gtaagcctca tcatcagagc ctttctctaa aactggagtc ccaaagtca tcaggttttg 540
 ntttttttcc aaccactaag aacctctctg cttttaactc tagaatttgg gcttggaacca 600
 gatctaacat cttgaatact ctgccctcta gaccttcacc ttaatggaan gtggatccca 660
 nganggtgta atggacatca agccactcgc ggcagcatgg agctatacta agcatcctta 720
 nggtctgcct ctcn 734

<210> 333
 <211> 710
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (710)
 <223> n = A,T,C or G

<400> 333
 ntgggcccctc tngngctgct cgagcgcccg ccagtgatgat ggatatctgc agaattcgcc 60
 ctttcgagcg gccgcccggg caggtagcct tctcgctttt gccattagcc aaggatagaa 120
 gctgcagtggt tattaatttt gatataatct ttcaaaccag ctctcatgtgg cttccctttt 180
 ctttggttcaa gatgagggcc aggaggggaa acatcacacc tgccctaaac cctgttctctg 240
 gagggtcagca tttgatctgt tgcaagcccc tctttctgtc cctcttctc accctgcctc 300
 ccattgacttt gctcctcaca cttttggaac catgccttcc gggggggccc atctcttctg 360
 gccgtccttg tctctgggcc acttgagtg tgtgataaat cagtcaagct gttgaagtct 420
 caggagtcctc tggtagcctg cagaagtaag cctcatcatc agagccttcc ctcaaaactg 480
 gagtcccaaa tgtcatcagg ttttgttttt ttttcagcca ctaagaacct ctctgctttt 540
 aactctagaa tttgggcttg gaccagatct aacatcttga atactctgcc ctctagagcc 600
 ttcagcctta atggaagggt ggatccaang anggtgtaat ggaacatcaa gccactcgcg 660
 gcagcatgga gctatactaa gcatacctta nggtctgcct cttcagcatt 710

<210> 334
 <211> 2051
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)... (2051)
 <223> n = A,T,C or G

<400> 334
 gcccttgccct cagcctaccc agtagctggt gatggccatc cttttataaa tgcaacgtcc 60
 ttgcttctctg ttaagtcattg ggggaggaag gcccttttctc tcttcagtct aataatcaac 120

tgttcactat	tcacaatagc	aacatcatgg	gctgaaccta	tgtgtccatc	aacagatgat	180
tagattttta	aatgtgcata	tataccatgg	aatacatagc	caaccatcaa	aaataatgaa	240
atcacatctt	ttgcagcaat	atggatggaa	ctggaagccc	ttatcgtaag	tgaaatgact	300
cagagacaga	aagtcagaaa	ctgcatgttc	tcatttggaa	actgaaaatc	acacacacat	360
aaatctaata	aagacatggg	tactttattt	tcaaaacact	catatgttgc	aaaaaacaca	420
tagaaaaata	aagtttgggt	ggggtgctga	ctaaacttca	agtcacagac	ttttatgtga	480
cagattggag	caggggttgt	tatgcatgta	gagaacccaa	actaatttat	taaacaggat	540
agaaacaggc	tgtctgggtg	aaatggttct	gagaaccatc	caattcacct	gtcagatgct	600
gatagactag	ctcttcagat	gtttttctac	cagttcagag	atgggttaat	gactagtctc	660
aatggggaaa	aagcaagatg	gattcacaaa	ccaagttaatt	ttaaacaaaag	acactttttt	720
ttttttttgc	aacacaatat	acatcacagt	gaaatgtgta	atccttgcaa	attgcaagtt	780
gaaagaatta	aattcagagg	aggggagaga	aagagtactc	agtagggact	gagcactaaa	840
tgctttatctt	aaaagaaatg	taaagagcag	aaagcaattc	aggctaccct	gccttttgtg	900
ctggctagta	ctccggtcgg	tgtcagcagc	acgtggcatt	gaacattgca	atgtggagcc	960
caaaccacag	aaaatggggt	gaaattggcc	aactttctat	taacttatgt	tggcaatttt	1020
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tgttgtttca	tttttttcta	atgtctcccc	tctaccagct	cacctgagat	aacagaatga	1200
aaatggaagg	acagccagat	ttctcctttg	ctctctgctc	attctctctg	aagtctaggt	1260
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cagtcctctg	cttgctcagt	ggactgggct	ccccagggcc	taggctgcct	tctttcccat	1440
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tgttcttctc	ctgtgaaaat	ccaatacctc	ttacctcttc	tgcatgcaaa	gattctcaag	1560
gattgtcaga	cttcaaacgt	aacagcagaa	ccaccagaag	gtcctataaa	tgcaagtatg	1620
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aggaagaaaa	taagagttgc	tagtwttaaa	aatgcatgtc	ttttagccaa	ttcagaatct	1740
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aaaaaaaaaa	aacaagtacc	tcggccgcga	ccacgcctaag	ggcgaattcc	agcacactgg	1860
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ancnggttnc	cggggntnaa	aattgtttacc	cgcnaaaaat	tccanaaaaa	natncaaac	1980
cggaaancca	taaantntn	aancccnngn	ggccnaaggg	agnnnaaac	ccnnaataaa	2040
tggnttggnc	c					2051

<210> 335

<211> 1312

<212> DNA

<213> Homo sapien

<400> 335

acctagaaaa	cagaaaacttg	agtagacatg	gtaatgacca	gaaaaggcta	tctttatata	60
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ctacttaact	gaaaattatt	ttcaatgaat	gggatgttta	gaactctgtg	agggttttta	180
aggctctttc	gaatagcaaa	ttctaattgag	gcttttttaa	gttggcaatt	taaaactata	240
caagaaataa	aaactacca	gtgtggctgg	gcagaatata	tatatcttct	caaatttgt	300
ttgtttgttt	tttccctgca	ctgtatccat	gggtcccatga	tgaactggt	atattgtctga	360
tatatattatt	ggaatatgtg	ggccaacttc	ctttccactc	aacatatgga	ttggtagtgt	420
aaaataattc	ctttctatta	agcaaatgtg	tggttaaggc	acatttaaatt	agcccattaa	480
accaatgaga	tgacaatgtg	ttaccctcag	agaaagctta	atttttggag	taatcaatta	540
cacatatcac	agaatgtctc	atgagaacat	ttttggctag	gtctaccaat	ttatcatgca	600
aataattata	gattttcatt	tgaggcaaaag	atgctgattc	atcattagta	acatggtcac	660
aaataatcat	ttattttatt	tttgtaaca	tctgtctttc	ctgtggggaa	acttactata	720
tgctctacgt	ttattttaatt	taaaaagtca	atttggtatt	ctgaattttt	aaaaataaca	780
taaaaactgtt	gttctaaatc	acagcacctg	cttttctttt	tttagtgaaa	ttatataagc	840
atttagagaa	tgaagtgtga	agacttgttg	tttctggtct	ctttttactg	tttgtaagcc	900
tactcgtcat	gatattccac	aatggtgcac	ttgcctttta	atgctcttat	agatatcttc	960
aaacttgctt	acatatatac	gcctttgttg	gagtggtgta	ccatcatcag	gaatgatgtc	1020
atttggtttc	tcaaaactct	ttattatacc	aaaaaagtga	cagactccac	agtcctgatca	1080
gttttggaga	aatatgttaa	cattttcaat	tatctcactt	tctagaatca	aaatagtctg	1140
attttttttt	ttcggcactc	agtgtaaaga	acaaagaact	gaatacagtg	ggcccagaag	1200
agaaatatgc	ctcatcattt	ttattagctt	tggaaactgtg	gacaagtcc	tcaacctagt	1260
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<210> 336
 <211> 787
 <212> DNA
 <213> Homo sapien

<400> 336
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 aaaattgcaa ataaatatag atagataata tcatgatgag aaggtcacgg gaagcctgga 120
 gatttcaggg tgctctttca taattggagc gagaatcatg taacagttaa gaaactaaac 180
 tcttgagcct tcatagtctt tgctttctcc ccattttattt attatataaa atcctactcg 240
 ttttaattata gactggactg aaatatttta tttttgtttt attataaaaa atcctactcg 300
 tctttaacat gttctcttaa agagtgtttc atatataaat actttccccc caaaatataa 360
 agaggctaac cactatagta ttgaaagatt gaaagaaaaga cctagggtgt ctaaaaccaa 420
 atttaaggc tcagtcttaa gaggagttaa aatgtcttct ttgtaagcac tttaaacttc 480
 atctttaaac attgatgaga atattataaa gaattcacaa cagcagttac atggaggtag 540
 aaaagagtgt tgagaagaag gagggtgatt gcaacaaata caaagaaact attgagatgt 600
 aacaaagacg tgcaattacc tatgaatggg taaaccagtt atatatatttg ctttcacagc 660
 atgagattat ttttaatttg aattggttta ccatgtaatg acacttccat tttaaagatt 720
 ttatgcattg aaccttaata ctctcaagggt ttccagactt cagagaggta gtcatactt 780
 tcattgt 787

<210> 337
 <211> 772
 <212> DNA
 <213> Homo sapien

<400> 337
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 tgattaaaaa aagacagaga ataagccctg tctgatggaa agcataacaa agcaggtaga 180
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(54) Title: GENES AND GENE EXPRESSION PRODUCTS THAT ARE DIFFERENTIALLY REGULATED IN PROSTATE CANCER			
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(51) International Patent Classification ⁶ : C12N 15/12, C07K 14/47, C12Q 1/68, G01N 33/68, C07K 16/18, A61K 31/70		A3	(11) International Publication Number: WO 99/64594 (43) International Publication Date: 16 December 1999 (16.12.99)
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INTERNATIONAL SEARCH REPORT

Intern. Application No
PCT/US 99/13181

A. CLASSIFICATION OF SUBJECT MATTER IPC 6 C12N15/12 C07K14/47 C12Q1/68 G01N33/68 C07K16/18 A61K31/70		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 6 C12N C07K		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HILLIER, L. ET AL.: "WashU-NCI human EST project: zu71f08.s1 Soares testis NHT Homo sapiens cDNA clone 743463" EMBL DATABASE ENTRY AA609384, 1 October 1997 (1997-10-01), XP002128750 the whole document ---	1,2,7-9
A	HILLIER, L. ET AL.: "WashU-NCI human EST project 1997: zv83c03.s1 Soares total fetus Nb2HF8 9w Homo sapiens cDNA clone 760228" EMBL DATABASE ENTRY HS1226101; ACCESSION NUMBER AA425141 (VERSION 2), 28 October 1997 (1997-10-28), XP002128751 the whole document --- <div style="text-align: center;">-/-</div>	1,2,7-9
<div style="display: flex; justify-content: space-between;"> <input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex. </div>		
* Special categories of cited documents:		
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European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	ANDRES S.M.	

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HILLIER, L. ET AL.: "WashU-NCI human EST project: za83e08.r1 Soares fetal lung NbHL19W Homo sapiens cDNA clone 299174" EMBL DATABASE ENTRY HS287326; ACCESSION NUMBER W05287, 8 May 1996 (1996-05-08), XP002128752 the whole document ---	1,2,7-9
A	WO 98 04689 A (UROCOR INC) 5 February 1998 (1998-02-05) page 4, line 8 -page 5 page 13 -page 52 page 66 -page 85 page 112 -page 122 ---	1-11
A	HELLER ET AL: "DISCOVERY AND ANALYSIS OF INFLAMMATORY DISEASE-RELATED GENES USING cDNA MICROARRAYS" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, vol. 94, March 1997 (1997-03), pages 2150-2155, XP002100125 ISSN: 0027-8424 -----	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 99/ 13181

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-11 (all partially)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box 3.

Although claims 8 to 11 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Further defect(s) under Article 17(2)(a):

Continuation of Box 3.

Claims Nos.: 3 and 6

Present claims 3 and 6 relate to a nucleic acid sequences defined only by the (arbitrary) name of the clone they originate from. The use of these names in the present context is considered to lead to a lack of clarity within the meaning of Article 6 PCT. It is impossible to relate the clone names as given in claims 3 and 6 with the to be searched polynucleotide defined by SEQ ID 1. Consequently, no search has been carried out for claims 3 and 6 in the context of the first subject as mentionned on the communication pursuant to Art. 17(3)(a) PCT.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: Claims 1-11 (all partially)

A method for diagnosing or treating a prostate disorder by providing a probe, antisense, ribozyme capable of hybridizing to SEQ ID 1 or its complement, or an antibody capable of binding to a polypeptide encoded by SEQ ID 1.

Inventions 2 to 339: Claims 1,2,4,5,7-11 (all partially) and 3,6, 12-15 (all partially and as far as applicable)

As for subject 1. but respectively relating to SEQ IDs 2 to 339 (i.e. subject 2. corresponding to SEQ ID 2, subject 3. corresponding to SEQ ID 3,..., subject 339. corresponding to SEQ ID 339) and when applicable including the polynucleotide, vectors, cells and a composition containing the corresponding polypeptide.

INTERNATIONAL SEARCH REPORT

Information on patent family members

Internat. Application No

PCT/US 99/13181

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9804689 A	05-02-1998	AU 6642996 A	20-02-1998
		EP 0951541 A	27-10-1999
		US 5882864 A	16-03-1999

GENES AND GENE EXPRESSION PRODUCTS THAT ARE DIFFERENTIALLY REGULATED IN PROSTATE CANCER

FIELD OF THE INVENTION

This invention relates to the area of diagnosis, prognosis, and treatment
5 of cancer, tumor progression, hyperproliferative cell growth, and accompanying
physical and biological manifestations. More specifically, the invention includes
polynucleotides that are differentially regulated in prostatic disorders, such as metastatic
prostate cancer, localized prostate cancer, and benign prostate hyperplasia (BPH).

BACKGROUND OF THE INVENTION

10 Genes that are up- or down-regulated in cancer or tumor progression are
useful for therapeutic and diagnostic purposes. For example, detection of genes or gene
expression products up-regulated in hyperproliferative cells can be a predictive or
diagnostic marker of the onset or the progression of cancer. Early diagnosis can be
useful if the cancer, tumors, or hyperproliferating cells can be inhibited, removed, or
15 terminated to prevent metastasis or recurrence of cancerous growth. Such early warning
is of particular use to prostate cancer patients, where removal of the growth, tumor, or
cells is beneficial if the disease is confined to the prostate. There is a need in the art for
genes related to cancer and tumor progression.

SUMMARY OF THE INVENTION

20 The present invention provides methods and reagents for diagnosing
cancer, tumor progression, hyperproliferative cell growth, and accompanying biological
and physical manifestations. Reagents for such diagnostic kits include:

- (a) polynucleotides comprising a sequence capable of hybridizing to
one or more of SEQ ID NO:1-339 or complement thereof;
- 25 (b) polypeptides comprising the amino acid sequence encoded by
any one of SEQ ID NO:1-339; and
- (c) antibodies capable of binding polypeptides comprising the amino
acid sequence of (b).

The methods of diagnosis of the present invention include both nucleic acid assays and immunoassays.

In another embodiment, the present invention provides both compositions and methods for treating or ameliorating cancer, tumor progression, hyperproliferative cell growth, and accompanying biological and physical manifestations. The compositions for treatment or amelioration include:

- (a) polynucleotides comprising the sequence capable of hybridizing to one or more of the sequences shown in SEQ ID NO:1-339 and complement thereof, including antisense, ribozyme and gene therapy nucleic acid constructs;
- 10 (b) polypeptides comprising the amino acid sequence encoded by any one of SEQ ID NO:1-339; and
- (c) antibodies capable of binding polypeptides of polypeptides comprising the amino acid sequence (b).

Methods of treatment or amelioration include administering compositions of polynucleotides, polypeptides, antibodies, or combinations thereof and can be used

- 15 (a) to inhibit translation and/or transcription;
- (b) to inhibit biological activity;
- (c) as a vaccine antigen; and
- (d) as an immune system inducer.

20 Such compositions can be administered systemically or locally to the desired site.

In one embodiment, the present invention provides a composition comprising an isolated polynucleotide selected from the group consisting of

- (a) any one of SEQ ID NOs:2, 5, 49, 50, 99, 100, 115, 116, 118, 130, 131, 140, 144, 145, 146, 157, 158, 159, 163, 164, 165, 166, 177, 178, 180, 211, 212, 213, 218, 219, 220, 221, 229, 232, 233, 242, 243, 248, 249, 254, 256, 257, 259, 272, 273, 277, 288, 289, 292, 293, 316, 317, and 330;
- 25 (b) a polynucleotide that encodes a variant of the polypeptide encoded by (a); and
- (c) a polynucleotide encoding a protein expressed by a polynucleotide having the sequence of any one of the sequences of (a).

30

Preferably, the nucleic acid obtained from the biological material of part (b) above is genomic DNA or mRNA. The nucleic acid can also be cDNA complementary to the mRNA.

Another embodiment of the invention is the use of the isolated
5 polynucleotides or parts thereof as diagnostic probes or as primers.

In another embodiment, the present invention provides a composition comprising a polypeptide, wherein said polypeptide is selected from the group consisting of:

(a) a polypeptide encoded by any one of SEQ ID Nos:2, 5, 49, 50,
10 99, 100, 115, 116, 118, 130, 131, 140, 144, 145, 146, 157, 158, 159, 163, 164, 165, 166, 177, 178, 180, 211, 212, 213, 218, 219, 220, 221, 229, 232, 233, 242, 243, 248, 249, 254, 256, 257, 259, 272, 273, 277, 288, 289, 292, 293, 316, 317, and 330;

(b) a polypeptide encoded by full-length mRNA or cDNA
corresponding to any one of SEQ ID NO:1-339; and

15 (c) a variant of the protein (a) or (b);

In certain preferred embodiments, the polynucleotide is operably linked to an expression control sequence. The invention further provides a host cell, including bacterial, yeast, insect and mammalian cells, transformed with the polynucleotide sequence. The invention also provides the full-length cDNA and the full length human
20 gene corresponding to the polynucleotide.

Protein and polypeptide compositions of the invention may further comprise a pharmaceutically acceptable carrier. Compositions comprising an antibody that specifically reacts with such protein or polypeptide are also provided by the present invention.

25 The invention further relates to a polypeptide or nucleic acid obtained by transforming a host cell with nucleic acid comprising at least one of SEQ ID NO:1-339, culturing the host cell, and recovering the replicated nucleic acid, the expressed RNA, and/or the expressed polypeptide.

Brief Description of the Figures

30 Figure 1 provides the open reading frame for clone SL 195.

Figure 2 provides the open reading frame for clone SL 197.

Figure 3 provides the immunohistochemistry staining results for clone SL 5 expression in a variety of normal and tumor tissues.

Detailed Description of the Invention

Genes that are up- or down-regulated in cancer or tumor progression are useful for therapeutic and diagnostic purposes. For example, a diagnostic assay to determine the stage of the disease also is useful in tailoring treatment of aggressive versus more mild cancer or tumor progression. The polynucleotide sequences and encoded polypeptides of the present invention are useful for these diagnostic or prognostic purposes.

Further, modulation of genes or gene expression products that are mis-regulated can be used to treat or ameliorate cancer, tumor progression, hyperproliferative cell growth, and the accompanying physical and biological manifestations. For example, the polynucleotide sequences provided herein as SEQ ID NO:1-339, can be used to construct the following polynucleotide and polypeptide compositions that are useful for treatment: antisense; ribozymes; antibodies; vaccine antigens; and immune system inducers, to induce dendritic cells, for example.

Identified herein are polynucleotide sequences that are upregulated in a cancer cell line, more specifically in a prostate cancer cell line. Thus, the present invention relates to methods and reagents for diagnosis, and to methods and compositions for treatment.

I. Use of Polynucleotides Having a Sequence of One or More of SEQ ID NO:1-339 to Obtain Full-Length cDNA and Full-Length Human Gene and Promoter Region

Full-length cDNA molecules comprising the disclosed sequences are obtained as follows. The polynucleotide or a portion thereof comprising at least 12, 15, 18, or 20 nucleotides is used as a hybridization probe to detect hybridizing members of a cDNA library using probe design methods, cloning methods, and clone selection techniques as described in U.S. Patent No. 5,654,173, "Secreted Proteins and Polynucleotides Encoding Them," incorporated herein by reference. Libraries of cDNA are made from selected tissues, such as normal or tumor tissue, or from tissues of a

mammal treated with, for example, a pharmaceutical agent. Preferably, the tissue is the same as that used to generate the polynucleotides, as both the polynucleotides and the cDNA represent expressed genes. Most preferably, the cDNA library is made from the biological material described herein in the Examples. Alternatively, many cDNA
5 libraries are available commercially. (Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual*, 2nd Ed. (Cold Spring Harbor Press, Cold Spring Harbor, NY 1989).

Members of the library that are larger than the polynucleotide, and preferably that contain the whole sequence of the native message, are obtained. In order
10 to confirm that the entire cDNA has been obtained, RNA protection experiments are performed as follows. Hybridization of a full-length cDNA to an mRNA will protect the RNA from RNase degradation. If the cDNA is not full length, then the portions of the mRNA that are not hybridized will be subject to RNase degradation. This is assayed, as is known in the art, by changes in electrophoretic mobility on
15 polyacrylamide gels, or by detection of released monoribonucleotides. Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual*, 2nd Ed. (Cold Spring Harbor Press, Cold Spring Harbor, NY 1989). In order to obtain additional sequences 5' to the end of a partial cDNA, 5' RACE (PCR Protocols: A Guide to Methods and Applications (Academic Press, Inc. 1990)) is performed.

20 Genomic DNA is isolated using polynucleotides in a manner similar to the isolation of full-length cDNAs. Briefly, the polynucleotides, or portions thereof, are used as probes to libraries of genomic DNA. Preferably, the library is obtained from the cell type that was used to generate the polynucleotides, but this is not essential. Most preferably, the genomic DNA is obtained from the biological material described
25 herein in the Examples. Such libraries may be in vectors suitable for carrying large segments of a genome, such as P1 or YAC, as described in detail in Sambrook *et al.*, 9.4-9.30. In addition, genomic sequences can be isolated from human BAC libraries, which are commercially available from Research Genetics, Inc., Huntsville, Alabama, USA, for example. In order to obtain additional 5' or 3' sequences, chromosome
30 walking is performed, as described in Sambrook *et al.*, such that adjacent and

overlapping fragments of genomic DNA are isolated. These are mapped and pieced together, as is known in the art, using restriction digestion enzymes and DNA ligase.

Using the polynucleotide sequences of the invention, corresponding full length genes can be isolated using both classical and PCR methods to construct and
5 probe cDNA libraries. Using either method, Northern blots, preferably, are performed on a number of cell types to determine which cell lines express the gene of interest at the highest rate.

Classical methods of constructing cDNA libraries are taught in Sambrook et al., supra. With these methods, cDNA can be produced from mRNA and
10 inserted into viral or expression vectors. Typically, libraries of mRNA comprising poly(A) tails can be produced with poly(T) primers. Similarly, cDNA libraries can be produced using the instant sequences as primers.

PCR methods are used to amplify the members of a cDNA library that comprise the desired insert. In this case, the desired insert will contain sequence from
15 the full length cDNA that corresponds to the instant ESTs. Such PCR methods include gene trapping and RACE methods. Gruber *et al.*, PCT WO 95/04745 and Gruber *et al.*, U.S. Pat. No. 5,500,356. Kits are commercially available to perform gene trapping experiments from, for example, Life Technologies, Gaithersburg, Maryland, USA. PCT Pub. No. WO 97/19110. (Apte and Siebert, *Biotechniques* 15:890-893, 1993; Edwards
20 *et al.*, *Nuc. Acids Res.* 19:5227-5232, 1991).

The promoter region of a gene generally is located 5' to the initiation site for RNA polymerase II, and can be obtained by performing 5' RACE using a primer from the coding region of the gene. Alternatively, the cDNA can be used as a probe for the genomic sequence, and the region 5' to the coding region is identified by "walking
25 up." If the gene is highly expressed or differentially expressed, the promoter from the gene may be of use in a regulatory construct for a heterologous gene.

Once the full-length cDNA or gene is obtained, DNA encoding variants can be prepared by site-directed mutagenesis, described in detail in Sambrook *et al.*, 15.3-15.63. The choice of codon or nucleotide to be replaced can be based on disclosure
30 herein on optional changes in amino acids to achieve altered protein structure and/or function.

As an alternative method to obtaining DNA or RNA from a biological material, nucleic acid comprising nucleotides having the sequence of one or more polynucleotides of the invention can be synthesized. Thus, the invention encompasses nucleic acid molecules ranging in length from 15 nucleotides (corresponding to at least 5 15 contiguous nucleotides of one of SEQ ID NO:1-339) up to a maximum length suitable for one or more biological manipulations, including replication and expression, of the nucleic acid molecule. The invention includes but is not limited to (a) nucleic acid having the size of a full gene, and comprising at least one of SEQ ID NO:1-339; (b) the nucleic acid of (a) also comprising at least one additional gene, operably linked 10 to permit expression of a fusion protein; (c) an expression vector comprising (a) or (b); (d) a plasmid comprising (a) or (b) ; and (e) a recombinant viral particle comprising (a) or (b).

The sequence of a nucleic acid comprising at least 15 contiguous nucleotides of at least any one of SEQ ID NO:1-339, preferably the entire sequence of 15 at least any one of SEQ ID NO:1-339, is not limited and can be any sequence of A, T, G, and/or C (for DNA) and A, U, G, and/or C (for RNA) or modified bases thereof, including inosine and pseudouridine. The choice of sequence will depend on the desired function and can be dictated by coding regions desired, the intron-like regions desired, and the regulatory regions desired.

20 Where the entire sequence of any one of SEQ ID NO:1-339 is within the nucleic acid, the nucleic acid obtained is referred to herein as a polynucleotide comprising the sequence of any one of SEQ ID NO:1-339.

II. Expression of Polypeptide Encoded by Full-Length cDNA or Full-Length Gene

The polynucleotide, the corresponding cDNA, or the full-length gene is 25 used to express the partial or complete gene product. Appropriate polynucleotide constructs are purified using standard recombinant DNA techniques as described in, for example, Sambrook *et al.*, (1989) *Molecular Cloning: A Laboratory Manual*, 2nd ed. (Cold Spring Harbor Press, Cold Spring Harbor, New York). The polypeptides encoded by the polynucleotides are expressed in any expression system, including, for example,

bacterial, yeast, insect, amphibian and mammalian systems. Suitable vectors and host cells are described in U.S. Patent No. 5,654,173.

Bacteria. Expression systems in bacteria include those described in Chang *et al.*, *Nature* (1978) 275:615, Goeddel *et al.*, *Nature* (1979) 281:544, Goeddel *et al.*, *Nucleic Acids Res.* (1980) 8:4057; EP 0 036,776, U.S. Patent No. 4,551,433, DeBoer *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1983) 80:21-25, and Siebenlist *et al.*, *Cell* (1980) 20:269.

Yeast. Expression systems in yeast include those described in Hinnen *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1978) 75:1929; Ito *et al.*, *J. Bacteriol.* (1983) 153:163; Kurtz *et al.*, *Mol. Cell. Biol.* (1986) 6:142; Kunze *et al.*, *J. Basic Microbiol.* (1985) 25:141; Gleeson *et al.*, *J. Gen. Microbiol.* (1986) 132:3459, Roggenkamp *et al.*, *Mol. Gen. Genet.* (1986) 202:302; Das *et al.*, *J. Bacteriol.* (1984) 158:1165; De Louvencourt *et al.*, *J. Bacteriol.* (1983) 154:737, Van den Berg *et al.*, *Bio/Technology* (1990) 8:135; Kunze *et al.*, *J. Basic Microbiol.* (1985) 25:141; Cregg *et al.*, *Mol. Cell. Biol.* (1985) 5:3376, U.S. Patent Nos. 4,837,148 and 4,929,555; Beach and Nurse, *Nature* (1981) 300:706; Davidow *et al.*, *Curr. Genet.* (1985) 10:380, Gaillardin *et al.*, *Curr. Genet.* (1985) 10:49, Ballance *et al.*, *Biochem. Biophys. Res. Commun.* (1983) 112:284-289; Tilburn *et al.*, *Gene* (1983) 26:205-221, Yelton *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1984) 81:1470-1474, Kelly and Hynes, *EMBO J.* (1985) 4:475479; EP 0 244,234, and WO 91/00357.

Insect Cells. Expression of heterologous genes in insects is accomplished as described in U.S. Patent No. 4,745,051, Friesen *et al.* (1986) "The Regulation of Baculovirus Gene Expression" in: *The Molecular Biology Of Baculoviruses* (W. Doerfler, ed.), EP 0 127,839, EP 0 155,476, and Vlak *et al.*, *J. Gen. Virol.* (1988) 69:765-776, Miller *et al.*, *Ann. Rev. Microbiol.* (1988) 42:177, Carbonell *et al.*, *Gene* (1988) 73:409, Maeda *et al.*, *Nature* (1985) 315:592-594, Lebacqz-Verheyden *et al.*, *Mol. Cell. Biol.* (1988) 8:3129; Smith *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1985) 82:8404, Miyajima *et al.*, *Gene* (1987) 58:273; and Martin *et al.*, *DNA* (1988) 7:99. Numerous baculoviral strains and variants and corresponding permissive insect host cells from hosts are described in Luckow *et al.*, *Bio/Technology*

(1988) 6:47-55, Miller *et al.*, Generic Engineering (Setlow, J.K. *et al.* eds.), Vol. 8 (Plenum Publishing, 1986), pp. 277-279, and Maeda *et al.*, *Nature*, (1985) 315:592-594.

Mammalian Cells. Mammalian expression is accomplished as described in Dijkema *et al.*, *EMBO J.* (1985) 4:761, Gorman *et al.*, *Proc. Natl. Acad. Sci. (USA)* 5 (1982) 79:6777, Boshart *et al.*, *Cell* (1985) 41:521 and U.S. Patent No. 4,399,216. Other features of mammalian expression are facilitated as described in Ham and Wallace, *Meth. Enz.* (1979) 58:44, Barnes and Sato, *Anal. Biochem.* (1980) 102:255, U.S. Patent Nos. 4,767,704, 4,657,866, 4,927,762, 4,560,655, WO 90/103430, WO 87/00195, and U.S. RE 30,985.

10 Polynucleotide molecules comprising the polynucleotide sequence are propagated by placing the molecule in a vector. Viral and non-viral vectors are used, including plasmids. The choice of plasmid will depend on the type of cell in which propagation is desired and the purpose of propagation. Certain vectors are useful for amplifying and making large amounts of the desired DNA sequence. Other vectors are
15 suitable for expression in cells in culture. Still other vectors are suitable for transfer and expression in cells in a whole animal or person. The choice of appropriate vector is well within the skill of the art. Many such vectors are available commercially. The polynucleotide is inserted into a vector typically by means of DNA ligase attachment to a cleaved restriction enzyme site in the vector. Alternatively, the desired nucleotide
20 sequence may be inserted by homologous recombination in vivo. Typically this is accomplished by attaching regions of homology to the vector on the flanks of the desired nucleotide sequence. Regions of homology are added by ligation of oligonucleotides, or by polymerase chain reaction using primers comprising both the region of homology and a portion of the desired nucleotide sequence, for example.

25 Polynucleotides are linked to regulatory sequences as appropriate to obtain the desired expression properties. These may include promoters (attached either at the 5' end of the sense strand or at the 3' end of the antisense strand), enhancers, terminators, operators, repressors, and inducers. The promoters may be regulated or constitutive. In some situations it may be desirable to use conditionally active
30 promoters, such as tissue-specific or developmental stage-specific promoters. These are

linked to the desired nucleotide sequence using the techniques described above for linkage to vectors. Any techniques known in the art may be used.

When any of the above host cells, or other appropriate host cells or organisms, are used to replicate and/or express the polynucleotides or nucleic acids of the invention, the resulting replicated nucleic acid, RNA, expressed protein or polypeptide, is within the scope of the invention as a product of the host cell or organism. The product is recovered by any appropriate means known in the art.

Once the gene corresponding to the polypeptide is identified, its expression can be regulated in the cell to which the gene is native. For example, an endogenous gene of a cell can be regulated by an exogenous regulatory sequence as disclosed in U.S. Patent No. 5,641,670, "Protein Production and Protein Delivery."

Ribozymes

Trans-cleaving catalytic RNAs (ribozymes) are RNA molecules possessing endoribonuclease activity. Ribozymes are specifically designed for a particular target, and the target message must contain a specific nucleotide sequence. They are engineered to cleave any RNA species site-specifically in the background of cellular RNA. The cleavage event renders the mRNA unstable and prevents protein expression. Importantly, ribozymes can be used to inhibit expression of a gene of unknown function for the purpose of determining its function in an in vitro or in vivo context, by detecting the phenotypic effect.

One commonly used ribozyme motif is the hammerhead, for which the substrate sequence requirements are minimal. Design of the hammerhead ribozyme is disclosed in Usman *et al.*, *Current Opin. Struct. Biol.* (1996) 6:527-533. Usman also discusses the therapeutic uses of ribozymes. Ribozymes can also be prepared and used as described in Long *et al.*, *FASEB J.* (1993) 7:25; Symons, *Ann. Rev. Biochem.* (1992) 61:641; Perrotta *et al.*, *Biochem.* (1992) 31:16-17; Ojwang *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1992) 89:10802-10806; and U.S. Patent No. 5,254,678. Ribozyme cleavage of HIV-I RNA is described in U.S. Patent No. 5,144,019; methods of cleaving RNA using ribozymes is described in U.S. Patent No. 5,116,742; and methods for increasing the specificity of ribozymes are described in U.S. Patent No. 5,225,337 and Koizumi *et al.*,

Nucleic Acid Res. (1989) 17:7059-7071. Preparation and use of ribozyme fragments in a hammerhead structure are also described by Koizumi *et al.*, *Nucleic Acids Res.* (1989) 17:7059-7071. Preparation and use of ribozyme fragments in a hairpin structure are described by Chowrira and Burke, *Nucleic Acids Res.* (1992) 20:2835. Ribozymes can
5 also be made by rolling transcription as described in Daubendiek and Kool, *Nat. Biotechnol.* (1997) 15(3):273-277.

The hybridizing region of the ribozyme may be modified or may be prepared as a branched structure as described in Horn and Urdea, *Nucleic Acids Res.* (1989) 17:6959-67. The basic structure of the ribozymes may also be chemically
10 altered in ways familiar to those skilled in the art, and chemically synthesized ribozymes can be administered as synthetic oligonucleotide derivatives modified by monomeric units. In a therapeutic context, liposome mediated delivery of ribozymes improves cellular uptake, as described in Birikh *et al.*, *Eur. J. Biochem.* (1997) 245:1-16.

15 Therapeutic and functional genomic applications of ribozymes proceed beginning with knowledge of a portion of the coding sequence of the gene to be inhibited. Thus, for many genes, a polynucleotide sequence as disclosed herein provides adequate sequence for constructing an effective ribozyme. A target cleavage site is selected in the target sequence, and a ribozyme is constructed based on the 5' and
20 3' nucleotide sequences that flank the cleavage site. Retroviral vectors are engineered to express monomeric and multimeric hammerhead ribozymes targeting the mRNA of the target coding sequence. These monomeric and multimeric ribozymes are tested in vitro for an ability to cleave the target mRNA. A cell line is stably transduced with the retroviral vectors expressing the ribozymes, and the transduction is confirmed by
25 Northern blot analysis and reverse-transcription polymerase chain reaction (RT-PCR). The cells are screened for inactivation of the target mRNA by such indicators as reduction of expression of disease markers or reduction of the gene product of the target mRNA.

Antisense

Antisense nucleic acids are designed to specifically bind to RNA, resulting in the formation of RNA-DNA or RNA-RNA hybrids, with an arrest of DNA replication, reverse transcription or messenger RNA translation. Antisense
5 polynucleotides based on a selected sequence can interfere with expression of the corresponding gene. Antisense polynucleotides are typically generated within the cell by expression from antisense constructs that contain the antisense EST strand as the transcribed strand. Antisense polynucleotides will bind and/or interfere with the translation of the corresponding mRNA. The expression products of control cells and
10 cells treated with the antisense construct are compared to detect the protein product of the gene corresponding to the polynucleotide. The protein is isolated and identified using routine biochemical methods.

Antisense therapy for a variety of cancers is in clinical phase and has been discussed extensively in the literature. Reed reviewed antisense therapy directed
15 at the Bcl-2 gene in tumors; gene transfer-mediated overexpression of Bcl-2 in tumor cell lines conferred resistance to many types of cancer drugs. (Reed, J.C., *N.C.I.* (1997) 89:988-990). The potential for clinical development of antisense inhibitors of *ras* is discussed by Cowser, L.M., *Anti-Cancer Drug Design* (1997) 12:359-371. Additional important antisense targets include leukemia (Geurtz, A.M., *Anti-Cancer Drug Design*
20 (1997) 12:341-358); human C-ref kinase (Monia, B.P., *Anti-Cancer Drug Design* (1997) 12:327-339); and protein kinase C (McGraw *et al.*, *Anti-Cancer Drug Design* (1997) 12:315-326).

Given the extensive background literature and clinical experience in antisense therapy, one skilled in the art can use selected polynucleotides of the
25 invention as additional potential therapeutics. The choice of polynucleotide can be narrowed by first testing them for binding to "hot spot" regions of the genome of cancerous cells. If a polynucleotide is identified as binding to a "hot spot", testing the polynucleotide as an antisense compound in the corresponding cancer cells clearly is warranted.

30 Ogunbiyi *et al.*, *Gastroenterology* (1997) 113(3):761-766 describe prognostic use of allelic loss in colon cancer; Barks *et al.*, *Genes, Chromosomes, and*

Cancer (1997) 19(4):278-285 describe increased chromosome copy number detected by FISH in malignant melanoma; Nishizake *et al.*, *Genes, Chromosomes, and Cancer* (1997) 19(4):267-272 describe genetic alterations in primary breast cancer and their metastases and direct comparison using modified comparative genome hybridization; and Elo *et al.*, *Cancer Research* (1997) 57(16):3356-3359 disclose that loss of heterozygosity at 16z24.1-q24.2 is significantly associated with metastatic and aggressive behavior of prostate cancer.

Dominant Negative Mutations

Dominant negative mutations are readily generated for corresponding proteins that are active as homomultimers. A mutant polypeptide will interact with wild-type polypeptides (made from the other allele) and form a non-functional multimer. Thus, a mutation is in a substrate-binding domain, a catalytic domain, or a cellular localization domain. Preferably, the mutant polypeptide will be overproduced. Point mutations are made that have such an effect. In addition, fusion of different polypeptides of various lengths to the terminus of a protein can yield dominant negative mutants. General strategies are available for making dominant negative mutants. See Herskowitz, *Nature* (1987) 329:219-222. Such a technique can be used for creating a loss of function mutation, which is useful for determining the function of a protein.

Identification of Secreted and Membrane-Bound Polypeptides

Both secreted and membrane-bound polypeptides of the present invention are of interest. For example, levels of secreted polypeptides can be assayed conveniently in body fluids, such as blood, urine, prostatic fluid and semen. Membrane-bound polypeptides are useful for constructing vaccine antigens or inducing an immune response. Such antigens would comprise all or part of the extracellular region of the membrane-bound polypeptides.

Because both secreted and membrane-bound polypeptides comprise a fragment of contiguous hydrophobic amino acids, hydrophobicity predicting algorithms can be used to identify such polypeptides.

A signal sequence is usually encoded by both secreted and membrane-bound polypeptide genes to direct a polypeptide to the surface of the cell. The signal

sequence usually comprises a stretch of hydrophobic residues. Such signal sequences can fold into helical structures.

Membrane-bound polypeptides typically comprise at least one transmembrane region that possesses a stretch of hydrophobic amino acids that can
5 transverse the membrane. Some transmembrane regions also exhibit a helical structure.

Hydrophobic fragments within a polypeptide can be identified by using computer algorithms. Such algorithms include Hopp & Woods, Proc. Natl. Acad. Sci. USA 78: 3824-3828 (1981); Kyte & Doolittle, J. Mol. Biol. 157: 105-132 (1982); and RAOAR algorithm, Degli Esposti *et al.*, Eur. J. Biochem. 190: 207-219 (1990).

10 Another method of identifying secreted and membrane-bound polypeptides is to translate the present polynucleotides, SEQ ID NO:1-339, in all six frames and determine if at least 8 contiguous hydrophobic amino acids are present. Those translated polypeptides with at least 8; more typically, 10; even more typically, 12 contiguous hydrophobic amino acids are considered to be either a putative secreted
15 or membrane bound polypeptide. Hydrophobic amino acids include alanine, glycine, histidine, isoleucine, leucine, lysine, methionine, phenylalanine, proline, threonine, tryptophan, tyrosine, and valine.

Putative secreted and/or membrane-bound polypeptides are encoded by the sequences of the following clones: SL-5, SL-6, SL-9, SL-11, SL-13, SL-90, SL-
20 100, SL-107, SL-124, SL-135, SL-139, SL-143, SL-152, SL-153, SL-173, and SL-177.

Construction of Polypeptides of the Invention and Variants Thereof

The polypeptides of the invention include those encoded by the disclosed polynucleotides. These polypeptides can also be encoded by nucleic acids that, by virtue of the degeneracy of the genetic code, are not identical in sequence to the
25 disclosed polynucleotides. Thus, the invention includes within its scope nucleic acids comprising polynucleotides encoding a protein or polypeptide expressed by a polynucleotide having the sequence of any one of SEQ ID NO:1-339. Also within the scope of the invention are variants; variants of polypeptides include mutants, fragments, and fusions. Mutants can include amino acid substitutions, additions or deletions. The
30 amino acid substitutions can be conservative amino acid substitutions or substitutions to

eliminate non-essential amino acids, such as to alter a glycosylation site, a phosphorylation site or an acetylation site, or to minimize misfolding by substitution or deletion of one or more cysteine residues that are not necessary for function. Conservative amino acid substitutions are those that preserve the general charge, hydrophobicity/hydrophilicity, and/or steric bulk of the amino acid substituted. For example, substitutions between the following groups are conservative: Gly/Ala, Val/Ile/Leu, Asp/Glu, Lys/Arg, Asn/Gln, Ser/Cys, Thr, and Phe/Trp/Tyr.

Cysteine-depleted muteins are variants within the scope of the invention. These variants can be constructed according to methods disclosed in U.S. Patent No. 4,959,314, "Cysteine-Depleted Muteins of Biologically Active Proteins." The patent discloses how to substitute other amino acids for cysteines, and how to determine biological activity and effect of the substitution. Such methods are suitable for proteins according to this invention that have cysteine residues suitable for such substitutions, for example to eliminate disulfide bond formation.

The protein variants described herein are encoded by polynucleotides that are within the scope of the invention. The genetic code can be used to select the appropriate codons to construct the corresponding variants.

The invention encompasses polynucleotide sequences having at least 65% sequence identity to any one of SEQ ID NOs:1-339 as determined by the Smith-Waterman homology search algorithm as implemented in MSPRCH program (Oxford Molecular) using an affine gap search with the following search parameters: gap open penalty of 12, and gap extension penalty of 1.

Use of the Polynucleotides as Probes, in Mapping, and in Tissue Profiling

Probes

Polynucleotide probes comprising at least 12 contiguous nucleotides selected from the nucleotide sequence of a polynucleotide of SEQ ID NO:1-339 are used for a variety of purposes, including identification of human chromosomes and determining transcription levels.

The nucleotide probes are labeled, for example, with a radioactive, fluorescent, biotinylated, or chemiluminescent label, and detected by well known

methods appropriate for the particular label selected. Protocols for hybridizing nucleotide probes to preparations of metaphase chromosomes are also well known in the art. A nucleotide probe will hybridize specifically to nucleotide sequences in the chromosome preparations which are complementary to the nucleotide sequence of the probe. A probe that hybridizes specifically to a polynucleotide should provide a detection signal at least 5-, 10-, or 20-fold higher than the background hybridization provided with other unrelated sequences.

In a non-limiting example, commercial programs are available for identifying regions of chromosomes commonly associated with disease, such as cancer. Polynucleotides of the invention can be used to probe these regions. For example, if through profile searching a polynucleotide is identified as corresponding to a gene encoding a kinase, its ability to bind to a cancer-related chromosomal region will suggest its role as a kinase in one or more stages of tumor cell development/growth. Although some experimentation would be required to elucidate the role, the polynucleotide constitutes a new material for isolating a specific protein that has potential for developing a cancer diagnostic or therapeutic.

Nucleotide probes are used to detect expression of a gene corresponding to the polynucleotide. For example, in Northern blots, mRNA is separated electrophoretically and contacted with a probe. A probe is detected as hybridizing to an mRNA species of a particular size. The amount of hybridization is quantitated to determine relative amounts of expression, for example under a particular condition. Probes are also used to detect products of amplification by polymerase chain reaction. The products of the reaction are hybridized to the probe and hybrids are detected. Probes are used for in situ hybridization to cells to detect expression. Probes can also be used in vivo for diagnostic detection of hybridizing sequences. Probes are typically labeled with a radioactive isotope. Other types of detectable labels may be used such as chromophores, fluors, and enzymes.

Expression of specific mRNA can vary in different cell types and can be tissue specific. This variation of mRNA levels in different cell types can be exploited with nucleic acid probe assays to determine tissue types. For example, PCR, branched DNA probe assays, or blotting techniques utilizing nucleic acid probes substantially

identical or complementary to polynucleotides listed in the Sequence Listing can determine the presence or absence of cDNA or mRNA related to the polynucleotides of the invention.

Examples of a nucleotide hybridization assay are described in Urdea *et al.*, PCT WO92/02526 and Urdea *et al.*, U.S. Patent No. 5,124,246, both incorporated
5 herein by reference. The references describe an example of a sandwich nucleotide hybridization assay.

Alternatively, the Polymerase Chain Reaction (PCR) is another means for detecting small amounts of target nucleic acids, as described in Mullis *et al.*, *Meth.*
10 *Enzymol.* (1987) 155:335-350; U.S. Patent No. 4,683,195; and U.S. Patent No. 4,683,202, all incorporated herein by reference. Two primer polynucleotides nucleotides hybridize with the target nucleic acids and are used to prime the reaction. The primers may be composed of sequence within or 3' and 5' to the polynucleotides of the Sequence Listing. Alternatively, if the primers are 3' and 5' to these polynucleotides,
15 they need not hybridize to them or the complements. A thermostable polymerase creates copies of target nucleic acids from the primers using the original target nucleic acids as a template. After a large amount of target nucleic acids is generated by the polymerase, it is detected by methods such as Southern blots. When using the Southern blot method, the labeled probe will hybridize to a polynucleotide of the Sequence
20 Listing or complement.

Furthermore, mRNA or cDNA can be detected by traditional blotting techniques described in Sambrook *et al.*, "Molecular Cloning: A Laboratory Manual" (New York, Cold Spring Harbor Laboratory, 1989). mRNA or cDNA generated from
25 mRNA using a polymerase enzyme can be purified and separated using gel electrophoresis. The nucleic acids on the gel are then blotted onto a solid support, such as nitrocellulose. The solid support is exposed to a labeled probe and then washed to remove any unhybridized probe. Next, the duplexes containing the labeled probe are detected. Typically, the probe is labeled with radioactivity.

Mapping

Polynucleotides of the present invention are used to identify a chromosome on which the corresponding gene resides. Using fluorescence in situ hybridization (FISH) on normal metaphase spreads, comparative genomic hybridization
5 allows total genome assessment of changes in relative copy number of DNA sequences. See Schwartz and Samad, *Current Opinions in Biotechnology* (1994) 8:70-74; Kallioniemi *et al.*, *Seminars in Cancer Biology* (1993) 4:41-46; Valdes and Tagle, *Methods in Molecular Biology* (1997) 68:1, Boultonwood, ed., Human Press, Totowa, NJ.

Preparations of human metaphase chromosomes are prepared using
10 standard cytogenetic techniques from human primary tissues or cell lines. Nucleotide probes comprising at least 12 contiguous nucleotides selected from the nucleotide sequence shown in the Sequence Listing are used to identify the corresponding chromosome. The nucleotide probes are labeled, for example, with a radioactive, fluorescent, biotinylated, or chemiluminescent label, and detected by well known
15 methods appropriate for the particular label selected. Protocols for hybridizing nucleotide probes to preparations of metaphase chromosomes are also well known in the art. A nucleotide probe will hybridize specifically to nucleotide sequences in the chromosome preparations that are complementary to the nucleotide sequence of the probe. A probe that hybridizes specifically to a polynucleotide-related gene provides a
20 detection signal at least 5-, 10-, or 20-fold higher than the background hybridization provided with non-EST coding sequences.

Polynucleotides are mapped to particular chromosomes using, for example, radiation hybrids or chromosome-specific hybrid panels. See Leach *et al.*, *Advances in Genetics*, (1995) 33:63-99; Walter *et al.*, *Nature Genetics* (1994) 7:22-28;
25 Walter and Goodfellow, *Trends in Genetics* (1992) 9:352. Such mapping can be useful in identifying the function of the polynucleotide-related gene by its proximity to other genes with known function. Function can also be assigned to the related gene when particular syndromes or diseases map to the same chromosome.

Tissue Profiling

30 The polynucleotides of the present invention can be used to determine the tissue type from which a given sample is derived. For example, a metastatic lesion

is identified by its developmental organ or tissue source by identifying the expression of a particular marker of that organ or tissue. If a polynucleotide is expressed only in a specific tissue type, and a metastatic lesion is found to express that polynucleotide, then the developmental source of the lesion has been identified. Expression of a particular polynucleotide is assayed by detection of either the corresponding mRNA or the protein product. Immunological methods, such as antibody staining, are used to detect a particular protein product. Hybridization methods may be used to detect particular mRNA species, including but not limited to in situ hybridization and Northern blotting.

Use of Polymorphisms

A polynucleotide will be useful in forensics, genetic analysis, mapping, and diagnostic applications if the corresponding region of a gene is polymorphic in the human population. A particular polymorphic form of the polynucleotide may be used to either identify a sample as deriving from a suspect or rule out the possibility that the sample derives from the suspect. Any means for detecting a polymorphism in a gene are used, including but not limited to electrophoresis of protein polymorphic variants, differential sensitivity to restriction enzyme cleavage, and hybridization to an allele-specific probe.

Use of Polynucleotides to Raise Antibodies

Expression products of a polynucleotide, the corresponding mRNA or cDNA, or the corresponding complete gene are prepared and used for raising antibodies for experimental, diagnostic, and therapeutic purposes. The polynucleotide or related cDNA is expressed as described above, and antibodies are prepared. These antibodies are specific to an epitope on the polynucleotide-encoded polypeptide, and can precipitate or bind to the corresponding native protein in a cell or tissue preparation or in a cell-free extract of an in vitro expression system.

Immunogens for raising antibodies are prepared by mixing the polypeptides encoded by the polynucleotide of the present invention with adjuvants. Alternatively, polypeptides are made as fusion proteins to larger immunogenic proteins. Polypeptides are also covalently linked to other larger immunogenic proteins, such as keyhole limpet hemocyanin. Immunogens are typically administered intradermally,

subcutaneously, or intramuscularly. Immunogens are administered to experimental animals such as rabbits, sheep, and mice, to generate antibodies. Optionally, the animal spleen cells are isolated and fused with myeloma cells to form hybridomas which secrete monoclonal antibodies. Such methods are well known in the art. According to
5 another method known in the art, the polynucleotide is administered directly, such as by intramuscular injection, and expressed in vivo. The expressed protein generates a variety of protein-specific immune responses, including production of antibodies, comparable to administration of the protein.

Preparations of polyclonal and monoclonal antibodies specific for
10 polynucleotide-encoded proteins and polypeptides are made using standard methods known in the art. The antibodies specifically bind to epitopes present in the polypeptides encoded by polynucleotides disclosed in the Sequence Listing. Typically, at least 6, 8, 10, or 12 contiguous amino acids are required to form an epitope. However, epitopes which involve non-contiguous amino acids may require more, for
15 example at least 15, 25, or 50 amino acids. A short sequence of a polynucleotide may then be unsuitable for use as an epitope to raise antibodies for identifying the corresponding novel protein, because of the potential for cross-reactivity with a known protein. However, the antibodies may be useful for other purposes, particularly if they identify common structural features of a known protein and a novel polypeptide
20 encoded by a polynucleotide of the invention.

Antibodies that specifically bind to human polynucleotide-encoded polypeptides should provide a detection signal at least 5-, 10-, or 20-fold higher than a detection signal provided with other proteins when used in Western blots or other immunochemical assays. Preferably, antibodies that specifically bind polypeptides do
25 not detect other proteins in immunochemical assays and can immunoprecipitate EST-encoded proteins from solution. For such immunoassays, any type of samples can be used, including tissue, organs, cells, urine, blood, prostatic fluid or semen.

Of interest are antibodies to the secreted polypeptides encoded by the present polynucleotide sequences, SEQ ID NO:1-339. Antibodies to secreted
30 polypeptides can be used to test body fluids, such as blood, urine, prostatic fluid and semen.

To test for the presence of serum antibodies to the polypeptide in a human population, human antibodies are purified by methods well known in the art. Preferably, the antibodies are affinity purified by passing antiserum over a column to which a protein, polypeptide, or fusion protein is bound. The bound antibodies can then
5 be eluted from the column, for example using a buffer with a high salt concentration.

In addition to the antibodies discussed above, genetically engineered antibody derivatives are made, such as single chain antibodies or humanized antibodies.

Antibodies to the polypeptides encoded by one or more of SEQ ID NO:1-339 also are contemplated for therapeutic compositions and uses. For example,
10 antibodies directed to membrane-bound polypeptides that are up-regulated in cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations can be constructed. Antibodies can provide a useful therapeutic in inhibiting cell growth or inducing an immune reaction to cancer, tumor, or hyperproliferating cells. Typically, such antibodies are directed the extracellular
15 regions of the membrane-bound polypeptide. The borders of such regions can be determined by identifying the location of the hydrophobic transmembrane fragment(s) in the encoded polypeptides of the present invention.

Exemplary antibodies were prepared using two sequences from clone SL-5: $\text{H}_2\text{N-CGPRLPSFPCPTHEPSTGQLSK-CONH}_2$ and $\text{H}_2\text{N-CKDSQGLSDFKR-}$
20 $\text{NSRTTTRRSYKCCONH}_2$. Using polyclonal antibodies raised against a mixture of these polypeptides, immunohistochemistry was performed on a variety of tumor tissues and corresponding normal tissue. The results are shown in Figure 3, and discussed in the Examples. These polypeptides are useful for detecting a higher level of expression of clone SL-5 in tumor tissues.

25 Use of Polynucleotides to Construct Arrays for Diagnostics

The present polynucleotide sequences and gene products are useful for determining the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations. Specifically, the polynucleotides and encoded polypeptides of the instant invention can be utilized to

determine the occurrence of prostatic disorders, such as BPH or localized prostate cancer.

A number of prostatic disorders exist, including adenocarcinoma, BPH, histologic prostate cancer, prostatic intraepithelial neoplasia, clinical prostate cancer, incidental prostate cancer, and localized prostate cancer. BPH is a common prostatic disorder in men which becomes clinically manifest usually after age fifty. In BPH, hyperplastic growth of prostatic cells in the periurethral glandular tissue in the central zone of the prostate gland cause an enlarged prostate which can compress or elongate the urethra and produce symptoms of urethral obstruction that may progress to urinary retention or to a constellation of symptoms known as prostatism. A host of physical manifestations can accompany prostatic disorders including: impotency, reduced urinary flow, hesitancy in initiating voiding, postvoid dribbling, a sensation of incomplete bladder emptying, and development of bladder or high urinary tract infections.

To determine the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations, the levels of polynucleotides and/or encoded polypeptides of the present invention in a sample are compared to the levels in a normal control of body tissues, cells, organs, or fluids. The normal control can include a pool of cells from a particular organ or tissue or tissues and/or cells from throughout the body. Either the immunoassays described above or the nucleic acid assays described below can be used for such measurements.

Any observed difference between the sample and normal control can indicate the occurrence of disease or disorder. Typically, if the levels of the polynucleotides and the encoded polypeptides of the present invention are higher than those found in the normal control, the results indicate the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations.

In addition, the present polynucleotides can be useful to diagnose the severity as well as the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations, including prostatic disorders. For example, the greater the difference observed in the sample versus the

normal control of the present polynucleotides or encoded polypeptides, the greater the severity of the disorder, in particular, when higher levels as compared to a normal control are observed.

The present polynucleotides, as shown in SEQ ID NO:1-339, were
5 expressed at higher levels in a prostate cancer cell line versus a normal prostate epithelial cell line.

Polynucleotide arrays provide a high throughput technique that can assay a large number of polynucleotide sequences in a sample. This technology can be used as a diagnostic and as a tool to test for differential expression to determine function of
10 an encoded protein.

To create arrays, polynucleotide probes are spotted onto a substrate in a two-dimensional matrix or array. Samples of polynucleotides can be labeled and then hybridized to the probes. Double stranded polynucleotides, comprising the labeled sample polynucleotides bound to probe polynucleotides, can be detected once the
15 unbound portion of the sample is washed away.

The probe polynucleotides can be spotted on substrates including glass, nitrocellulose, etc. The probes can be bound to the substrate by either covalent bonds or by non-specific interactions, such as hydrophobic interactions. The sample polynucleotides can be labeled using radioactive labels, fluorophors, etc.

20 Techniques for constructing arrays and methods of using these arrays are described in EP No. 0 799 897; PCT No. WO 97/29212; PCT No. WO 97/27317; EP No. 0 785 280; PCT No. WO 97/02357; U.S. Pat. No. 5,593,839; U.S. Pat. No. 5,578,832; EP No. 0 728 520; U.S. Pat. No. 5,599,695; EP No. 0 721 016; U.S. Pat. No. 5,556,752; PCT No. WO 95/22058; and U.S. Pat. No. 5,631,734.

25 Further, arrays can be used to examine differential expression of genes and can be used to determine gene function. For example, arrays of the instant polynucleotide sequences can be used to determine if any of the EST sequences are differentially expressed between normal cells and cancer cells, for example. High expression of a particular message in a cancer cell, which is not observed in a
30 corresponding normal cell, can indicate a cancer specific protein.

Differential Expression

The present invention also provides a method to identify abnormal or diseased tissue in a human. For polynucleotides corresponding to profiles of protein families as described above, the choice of tissue may be dictated by the putative biological function. The expression of a gene corresponding to a specific polynucleotide is compared between a first tissue that is suspected of being diseased and a second, normal tissue of the human. The normal tissue is any tissue of the human, especially those that express the polynucleotide-related gene including, but not limited to, brain, thymus, testis, heart, prostate, placenta, spleen, small intestine, skeletal muscle, pancreas, and the mucosal lining of the colon.

The polynucleotide-related genes in the two tissues are compared by any means known in the art. For example, the two genes are sequenced, and the sequence of the gene in the tissue suspected of being diseased is compared with the gene sequence in the normal tissue. The polynucleotide-related genes, or portions thereof, in the two tissues are amplified, for example using nucleotide primers based on the nucleotide sequence shown in the Sequence Listing, using the polymerase chain reaction. The amplified genes or portions of genes are hybridized to nucleotide probes selected from the same nucleotide sequence shown in the Sequence Listing. A difference in the nucleotide sequence of the polynucleotide-related gene in the tissue suspected of being diseased compared with the normal nucleotide sequence suggests a role of the polynucleotide-encoded proteins in the disease, and provides a lead for preparing a therapeutic agent. The nucleotide probes are labeled by a variety of methods, such as radiolabeling, biotinylation, or labeling with fluorescent or chemiluminescent tags, and detected by standard methods known in the art.

Alternatively, polynucleotide-related mRNA in the two tissues is compared. PolyA⁺ RNA is isolated from the two tissues as is known in the art. For example, one of skill in the art can readily determine differences in the size or amount of polynucleotide-related mRNA transcripts between the two tissues using Northern blots and nucleotide probes selected from the nucleotide sequence shown in the Sequence Listing. Increased or decreased expression of an polynucleotide-related mRNA in a tissue sample suspected of being diseased, compared with the expression of

the same polynucleotide-related mRNA in a normal tissue, suggests that the expressed protein has a role in the disease, and also provides a lead for preparing a therapeutic agent.

Any method for analyzing proteins is used to compare two
5 polynucleotide-encoded proteins from matched samples. The sizes of the proteins in the two tissues are compared, for example, using antibodies of the present invention to detect polynucleotide-encoded proteins in Western blots of protein extracts from the two tissues. Other changes, such as expression levels and subcellular localization, can also be detected immunologically, using antibodies to the corresponding protein. A
10 higher or lower level of polynucleotide-encoded protein expression in a tissue suspected of being diseased, compared with the same polynucleotide-encoded protein expression level in a normal tissue, is indicative that the expressed protein has a role in the disease, and provides another lead for preparing a therapeutic agent.

Similarly, comparison of polynucleotide gene sequences or of
15 polynucleotide gene expression products, e.g., mRNA and protein, between a human tissue that is suspected of being diseased and a normal tissue of a human, are used to follow disease progression or remission in the human. Such comparisons of polynucleotide-related genes, mRNA, or protein are made as described above.

For example, increased or decreased expression of the polynucleotide-
20 related gene in the tissue suspected of being neoplastic can indicate the presence of neoplastic cells in the tissue. The degree of increased expression of the polynucleotide gene in the neoplastic tissue relative to expression of the gene in normal tissue, or differences in the amount of increased expression of the polynucleotide gene in the neoplastic tissue over time, is used to assess the progression of the neoplasia in that
25 tissue or to monitor the response of the neoplastic tissue to a therapeutic protocol over time. The expression pattern of any two cell types can be compared, such as low and high metastatic tumor cell lines, or cells from tissue which have and have not been exposed to a therapeutic agent.

Screening for Peptide Analogs and Antagonists

Polypeptides encoded by the instant polynucleotides and corresponding full length genes can be used to screen peptide libraries to identify binding partners, such as receptors, from among the encoded polypeptides.

5 Such binding partners can be useful in treating cancer, tumor progression, hyperproliferative cell growth, and/or accompanying biological or physical manifestations. For example, peptides or other compounds that are capable of binding or interacting with membrane-bound polypeptides encoded by one or more of SEQ ID NO:1-339, can be useful as a therapeutic. Also, peptides or other compounds capable of
10 altering the conformation of any of the encoded polypeptides by one or more of SEQ ID NO:1-339 can inhibit biological activity and be useful as a therapeutic.

A library of peptides may be synthesized following the methods disclosed in U.S. Pat. No. 5,010,175, and in PCT WO91/17823.

Peptide agonists or antagonists are screened using any available method,
15 such as signal transduction, antibody binding, receptor binding, mitogenic assays, chemotaxis assays, etc. The methods described herein are presently preferred. The assay conditions ideally should resemble the conditions under which the native activity is exhibited *in vivo*, that is, under physiologic pH, temperature, and ionic strength. Suitable agonists or antagonists will exhibit strong inhibition or enhancement of the
20 native activity at concentrations that do not cause toxic side effects in the subject. Agonists or antagonists that compete for binding to the native polypeptide may require concentrations equal to or greater than the native concentration, while inhibitors capable of binding irreversibly to the polypeptide may be added in concentrations on the order of the native concentration.

25 The end results of such screening and experimentation will be at least one novel polypeptide binding partner, such as a receptor, encoded by a cDNA polynucleotide or gene of the invention, and at least one peptide agonist or antagonist of the novel binding partner. Such agonists and antagonists can be used to modulate, enhance, or inhibit receptor function in cells to which the receptor is native, or in cells
30 that possess the receptor as a result of genetic engineering. Further, if the novel receptor shares biologically important characteristics with a known receptor,

information about agonist/antagonist binding may help in developing improved agonists/antagonists of the known receptor.

Therapeutics, whether polynucleotide or polypeptide or small molecule, can be tested, for example, in the mouse tumor assay described in Pei *et al.*, Mol. Endo. 11: 433-441 (1997).

Other models for testing polynucleotides, polypeptides, antibodies, or small molecules useful for treatment include: animal models and cell lines disclosed in Bosland, *Encyclopedia of Cancer*, Volume II, pages 1283 to 1296 (1997) by Academic Press. Other useful cell lines are described in Brothman, *Encyclopedia of Cancer*, Volume II, pages 1303 to 1313 (1997) by Academic Press

Pharmaceutical Compositions and Therapeutic Uses

Pharmaceutical compositions can comprise polypeptides, antibodies, or polynucleotides of the claimed invention. The pharmaceutical compositions will comprise a therapeutically effective amount of either polypeptides, antibodies, or polynucleotides of the claimed invention.

The term "therapeutically effective amount" as used herein refers to an amount of a therapeutic agent to treat, ameliorate, or prevent a desired disease or condition, or to exhibit a detectable therapeutic or preventative effect. The effect can be detected by, for example, chemical markers or antigen levels. Therapeutic effects also include reduction in physical symptoms, such as decreased body temperature. The precise effective amount for a subject will depend upon the subject's size and health, the nature and extent of the condition, and the therapeutics or combination of therapeutics selected for administration. Thus, it is not useful to specify an exact effective amount in advance. However, the effective amount for a given situation can be determined by routine experimentation and is within the judgment of the clinician. Specifically, the compositions of the present invention can be used to treat, ameliorate, modulate, or prevent cancer, tumor progression, hyperproliferative cell growth and/or accompanying biological or physical manifestations, including prostatic disorders.

For purposes of the present invention, an effective dose will be from about 0.01 mg/kg to 50 mg/kg or 0.05 mg/kg to about 10 mg/kg of the polynucleotide, polypeptide or antibody compositions in the individual to which it is administered.

A pharmaceutical composition can also contain a pharmaceutically acceptable carrier. The term "pharmaceutically acceptable carrier" refers to a carrier for administration of a therapeutic agent, such as antibodies or a polypeptide, genes, and other therapeutic agents. The term refers to any pharmaceutical carrier that does not itself induce the production of antibodies harmful to the individual receiving the composition, and which may be administered without undue toxicity. Suitable carriers may be large, slowly metabolized macromolecules such as proteins, polysaccharides, polylactic acids, polyglycolic acids, polymeric amino acids, amino acid copolymers, and inactive virus particles. Such carriers are well known to those of ordinary skill in the art.

Pharmaceutically acceptable salts can be used therein, for example, mineral acid salts such as hydrochlorides, hydrobromides, phosphates, sulfates, and the like; and the salts of organic acids such as acetates, propionates, malonates, benzoates, and the like. A thorough discussion of pharmaceutically acceptable excipients is available in *Remington's Pharmaceutical Sciences* (Mack Pub. Co., N.J. 1991).

Pharmaceutically acceptable carriers in therapeutic compositions may contain liquids such as water, saline, glycerol and ethanol. Additionally, auxiliary substances, such as wetting or emulsifying agents, pH buffering substances, and the like, may be present in such vehicles. Typically, the therapeutic compositions are prepared as injectables, either as liquid solutions or suspensions; solid forms suitable for solution in, or suspension in, liquid vehicles prior to injection may also be prepared. Liposomes are included within the definition of a pharmaceutically acceptable carrier.

Delivery Methods

Once formulated, the polynucleotide compositions of the invention can be (1) administered directly to the subject; (2) delivered ex vivo, to cells derived from the subject; or (3) delivered in vitro for expression of recombinant proteins.

Direct delivery of the compositions will generally be accomplished by injection, either subcutaneously, intraperitoneally, intravenously or intramuscularly, or delivered to the interstitial space of a tissue. The compositions can also be administered into a tumor or lesion. Other modes of administration include oral and pulmonary administration, suppositories, and transdermal applications, needles, and gene guns or hyposprays. Dosage treatment may be a single dose schedule or a multiple dose schedule.

Methods for the ex vivo delivery and reimplantation of transformed cells into a subject are known in the art and described in e.g., International Publication No. WO 93/14778. Examples of cells useful in ex vivo applications include, for example, stem cells, particularly hematopoietic, lymph cells, macrophages, dendritic cells, or tumor cells.

Generally, delivery of nucleic acids for both ex vivo and in vitro applications can be accomplished by, for example, dextran-mediated transfection, calcium phosphate precipitation, polybrene mediated transfection, protoplast fusion, electroporation, encapsulation of the polynucleotide(s) in liposomes, and direct microinjection of the DNA into nuclei, all well known in the art.

If a polynucleotide-related gene correlates with a proliferative disorder, such as neoplasia, dysplasia, and hyperplasia, the disorder may be amenable to treatment by administration of a therapeutic agent based on the polynucleotide or corresponding polypeptide.

Preparation of antisense polypeptides is discussed above. Neoplasias that are treated with the antisense composition include, but are not limited to, cervical cancers, melanomas, colorectal adenocarcinomas, Wilms' tumor, retinoblastoma, sarcomas, myosarcomas, lung carcinomas, leukemias, such as chronic myelogenous leukemia, promyelocytic leukemia, monocytic leukemia, and myeloid leukemia, and lymphomas, such as histiocytic lymphoma. Proliferative disorders that are treated with the therapeutic composition include disorders such as anhydric hereditary ectodermal dysplasia, congenital alveolar dysplasia, epithelial dysplasia of the cervix, fibrous dysplasia of bone, and mammary dysplasia. Hyperplasias, for example, endometrial, adrenal, breast, prostate, or thyroid hyperplasias or pseudoepitheliomatous hyperplasia

of the skin, are treated with antisense therapeutic compositions. Even in disorders in which mutations in the corresponding gene are not implicated, downregulation or inhibition of gene expression can have therapeutic application. For example, decreasing gene expression can help to suppress tumors in which enhanced expression of the gene is implicated.

Both the dose of the antisense composition and the means of administration are determined based on the specific qualities of the therapeutic composition, the condition, age, and weight of the patient, the progression of the disease, and other relevant factors. Administration of the therapeutic antisense agents of the invention includes local or systemic administration, including injection, oral administration, particle gun or catheterized administration, and topical administration. Preferably, the therapeutic antisense composition contains an expression construct comprising a promoter and a polynucleotide segment of at least 12, 22, 25, 30, or 35 contiguous nucleotides of the antisense strand. Within the expression construct, the polynucleotide segment is located downstream from the promoter, and transcription of the polynucleotide segment initiates at the promoter.

Various methods are used to administer the therapeutic composition directly to a specific site in the body. For example, a small metastatic lesion is located and the therapeutic composition injected several times in several different locations within the body of tumor. Alternatively, arteries which serve a tumor are identified, and the therapeutic composition injected into such an artery, in order to deliver the composition directly into the tumor. A tumor that has a necrotic center is aspirated and the composition injected directly into the now empty center of the tumor. The antisense composition is directly administered to the surface of the tumor, for example, by topical application of the composition. X-ray imaging is used to assist in certain of the above delivery methods.

Receptor-mediated targeted delivery of therapeutic compositions containing an antisense polynucleotide, subgenomic polynucleotides, or antibodies to specific tissues is also used. Receptor-mediated DNA delivery techniques are described in, for example, Findeis *et al.*, *Trends in Biotechnol.* (1993) 11:202-205; Chiou *et al.*, (1994) *Gene Therapeutics: Methods And Applications Of Direct Gene Transfer* (J.A.

Wolff, ed.); Wu & Wu, *J. Biol. Chem.* (1988) 263:621-24; Wu *et al.*, *J. Biol. Chem.* (1994) 269:542-46; Zenke *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1990) 87:3655-59; Wu *et al.*, *J. Biol. Chem.* (1991) 266:339-42. Preferably, receptor-mediated targeted delivery of therapeutic compositions containing antibodies of the invention is used to
5 deliver the antibodies to specific tissue.

Therapeutic compositions containing antisense subgenomic polynucleotides are administered in a range of about 100 ng to about 200 mg of polynucleotides for local administration in a gene therapy protocol. Concentration ranges of about 500 ng to about 50 mg, about 1 μ g to about 2 mg, about 5 μ g to about
10 500 μ g, and about 20 μ g to about 100 μ g of polynucleotides can also be used during a gene therapy protocol. Factors such as method of action and efficacy of transformation and expression are considerations which will affect the dosage required for ultimate efficacy of the antisense subgenomic polynucleotides. Where greater expression is desired over a larger area of tissue, larger amounts of EST antisense subgenomic
15 polynucleotides or the same amounts readministered in a successive protocol of administrations, or several administrations to different adjacent or close tissue portions of, for example, a tumor site, may be required to effect a positive therapeutic outcome. In all cases, routine experimentation in clinical trials will determine specific ranges for optimal therapeutic effect. A more complete description of gene therapy vectors,
20 especially retroviral vectors, is contained in U.S. Serial No. 08/869,309, which is expressly incorporated herein, and in section G below.

For genes encoding polypeptides or proteins with anti-inflammatory activity, suitable use, doses, and administration are described in U.S. Patent No. 5,654,173, incorporated herein by reference. Therapeutic agents also include antibodies
25 to proteins and polypeptides, as described in U.S. Patent No. 5,654,173.

Gene Therapy

The therapeutic polynucleotides and polypeptides of the present invention may be utilized in gene delivery vehicles. The gene delivery vehicle may be of viral or non-viral origin (see generally, Jolly, *Cancer Gene Therapy* (1994) 1:51-64; Kimura, *Human Gene Therapy* (1994) 5:845-852; Connelly, *Human Gene Therapy*
30

(1995) 1:185-193; and Kaplitt, *Nature Genetics* (1994) 6:148-153). Gene therapy vehicles for delivery of constructs including a coding sequence of a therapeutic of the invention can be administered either locally or systemically. These constructs can utilize viral or non-viral vector approaches. Expression of such coding sequences can
5 be induced using endogenous mammalian or heterologous promoters. Expression of the coding sequence can be either constitutive or regulated.

The present invention can employ recombinant retroviruses which are constructed to carry or express a selected nucleic acid molecule of interest. Retrovirus vectors that can be employed include those described in EP 0 415 731; WO 90/07936;
10 WO 94/03622; WO 93/25698; WO 93/25234; U.S. Patent No. 5, 219,740; WO 93/11230; WO 93/10218; Vile and Hart, *Cancer Res.* (1993) 53:3860-3864; Vile and Hart, *Cancer Res.* (1993) 53:962-967; Ram et al., *Cancer Res.* (1993) 53:83-88; Takamiya et al., *J. Neurosci. Res.* (1992) 33:493-503; Baba et al., *J. Neurosurg.* (1993) 79:729-735; U.S. Patent no. 4,777,127; GB Patent No. 2,200,651; and EP 0 345 242.
15 Preferred recombinant retroviruses include those described in WO 91/02805.

Packaging cell lines suitable for use with the above-described retroviral vector constructs may be readily prepared (see PCT publications WO 95/30763 and WO 92/05266), and used to create producer cell lines (also termed vector cell lines) for the production of recombinant vector particles. Within particularly preferred embodiments
20 of the invention, packaging cell lines are made from human (such as HT1080 cells) or mink parent cell lines, thereby allowing production of recombinant retroviruses that can survive inactivation in human serum.

The present invention also employs alphavirus-based vectors that can function as gene delivery vehicles. Such vectors can be constructed from a wide variety
25 of alphaviruses, including, for example, Sindbis virus vectors, Semliki forest virus (ATCC VR-67; ATCC VR-1247), Ross River virus (ATCC VR-373; ATCC VR-1246) and Venezuelan equine encephalitis virus (ATCC VR-923; ATCC VR-1250; ATCC VR 1249; ATCC VR-532). Representative examples of such vector systems include those described in U.S. Patent Nos. 5,091,309; 5,217,879; and 5,185,440; and PCT
30 Publication Nos. WO 92/10578; WO 94/21792; WO 95/27069; WO 95/27044; and WO 95/07994.

Gene delivery vehicles of the present invention can also employ parvovirus such as adeno-associated virus (AAV) vectors. Representative examples include the AAV vectors disclosed by Srivastava in WO 93/09239, Samulski et al., *J. Vir.* (1989) 63:3822-3828; Mendelson et al., *Virology* (1988) 166:154-165; and Flotte et al., *PNAS* (1993) 90:10613-10617.

Representative examples of adenoviral vectors include those described by Berkner, *Biotechniques* (1988) 6:616-627; Rosenfeld et al., *Science* (1991) 252:431-434; WO 93/19191; Kolls et al., *PNAS* (1994) 91:215-219; Kass-Eisler et al., *PNAS* (1993) 90:11498-11502; Guzman et al., *Circulation* (1993) 88:2838-2848; Guzman et al., *Cir. Res.* (1993) 73:1202-1207; Zabner et al., *Cell* (1993) 75:207-216; Li et al., *Hum. Gene Ther.* (1993) 4:403-409; Cailaud et al., *Eur. J. Neurosci.* (1993) 5:1287-1291; Vincent et al., *Nat. Genet.* (1993) 5:130-134; Jaffe et al., *Nat. Genet.* (1992) 1:372-378; and Levrero et al., *Gene* (1991) 101:195-202. Exemplary adenoviral gene therapy vectors employable in this invention also include those described in WO 94/12649, WO 93/03769; WO 93/19191; WO 94/28938; WO 95/11984 and WO 95/00655. Administration of DNA linked to killed adenovirus as described in Curiel, *Hum. Gene Ther.* (1992) 3:147-154 may be employed.

Other gene delivery vehicles and methods may be employed, including polycationic condensed DNA linked or unlinked to killed adenovirus alone, for example Curiel, *Hum. Gene Ther.* (1992) 3:147-154; ligand linked DNA, for example see Wu, *J. Biol. Chem.* (1989) 264:16985-16987; eukaryotic cell delivery vehicles cells, for example see U.S. Serial No. 08/240,030, filed May 9, 1994, and U.S. Serial No. 08/404,796; deposition of photopolymerized hydrogel materials; hand-held gene transfer particle gun, as described in U.S. Patent No. 5,149,655; ionizing radiation as described in U.S. Patent No. 5,206,152 and in WO92/11033; nucleic charge neutralization or fusion with cell membranes. Additional approaches are described in Philip, *Mol. Cell Biol.* (1994) 14:2411-2418, and in Woffendin, *Proc. Natl. Acad. Sci.* (1994) 91:1581-1585.

Naked DNA may also be employed. Exemplary naked DNA introduction methods are described in WO 90/11092 and U.S. Patent No. 5,580,859.

Further non-viral delivery suitable for use includes mechanical delivery systems such as the approach described in Woffendin *et al.*, *Proc. Natl. Acad. Sci. USA* (1994) 91(24):11581-11585.

Computer-Related Embodiments

5 In general, a library of polynucleotides is a collection of sequence information, which information is provided in either biochemical form (*e.g.*, as a collection of polynucleotide molecules), or in electronic form (*e.g.*, as a collection of polynucleotide sequences stored in a computer-readable form, as in a computer system and/or as part of a computer program). The sequence information of the
10 polynucleotides can be used in a variety of ways, *e.g.*, as a resource for gene discovery, as a representation of sequences expressed in a selected cell type (*e.g.*, cell type markers), and/or as markers of a given disease or disease state. In general, a disease marker is a representation of a gene product that is present in all cells affected by disease either at an increased or decreased level relative to a normal cell (*e.g.*, a cell of
15 the same or similar type that is not substantially affected by disease).

The nucleotide sequence information of the library can be embodied in any suitable form, *e.g.*, electronic or biochemical forms. For example, a library of sequence information embodied in electronic form comprises an accessible computer data file (or, in biochemical form, a collection of nucleic acid molecules) that contains
20 the representative nucleotide sequences of genes that are differentially expressed (*e.g.*, overexpressed or underexpressed) as between, for example, a cancerous cell and a normal cell. Biochemical embodiments of the library include a collection of nucleic acids that have the sequences of the genes in the library, where the nucleic acids can correspond to the entire gene in the library or to a fragment thereof, as described in
25 greater detail below.

The polynucleotide libraries of the subject invention generally comprise sequence information of a plurality of polynucleotide sequences, where at least one of the polynucleotides has a sequence of any of SEQ ID NOs:1-339. By plurality is meant at least 2, usually at least 3 and can include up to all of SEQ ID NOs:1-339. The length
30 and number of polynucleotides in the library will vary with the nature of the library,

e.g., if the library is an oligonucleotide array, a cDNA array, a computer database of the sequence information, etc.

Where the library is an electronic library, the nucleic acid sequence information can be present in a variety of media. "Media" refers to a manufacture, other than an isolated nucleic acid molecule, that contains the sequence information of the present invention. Such a manufacture provides the genome sequence or a subset thereof in a form that can be examined by means not directly applicable to the sequence as it exists in a nucleic acid. For example, the nucleotide sequence of the present invention, *e.g.*, the nucleic acid sequences of any of the polynucleotides of SEQ ID NOs:1-339, can be recorded on computer readable media, *e.g.*, any medium that can be read and accessed directly by a computer. Such media include, but are not limited to: magnetic storage media, such as a floppy disc, a hard disc storage medium, and a magnetic tape; optical storage media such as CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage media. One of skill in the art can readily appreciate how any of the presently known computer readable mediums can be used to create a manufacture comprising a recording of the present sequence information. "Recorded" refers to a process for storing information on computer readable medium, using any such methods as known in the art. Any convenient data storage structure can be chosen, based on the means used to access the stored information. A variety of data processor programs and formats can be used for storage, *e.g.*, word processing text file, database format, *etc.* In addition to the sequence information, electronic versions of the libraries of the invention can be provided in conjunction or connection with other computer-readable information and/or other types of computer-readable files (*e.g.*, searchable files, executable files, *etc.*, including, but not limited to, for example, search program software, *etc.*).

By providing the nucleotide sequence in computer readable form, the information can be accessed for a variety of purposes. Computer software to access sequence information is publicly available. For example, the BLAST (Altschul et al., *supra.*) and BLAZE (Brutlag et al. *Comp. Chem.* (1993) 17:203) search algorithms on a Sybase system can be used to identify open reading frames (ORFs) within the genome that contain homology to ORFs from other organisms.

As used herein, "a computer-based system" refers to the hardware means, software means, and data storage means used to analyze the nucleotide sequence information of the present invention. The minimum hardware of the computer-based systems of the present invention comprises a central processing unit (CPU), input means, output means, and data storage means. A skilled artisan can readily appreciate that any one of the currently available computer-based system are suitable for use in the present invention. The data storage means can comprise any manufacture comprising a recording of the present sequence information as described above, or a memory access means that can access such a manufacture.

10 "Search means" refers to one or more programs implemented on the computer-based system, to compare a target sequence or target structural motif, or expression levels of a polynucleotide in a sample, with the stored sequence information. Search means can be used to identify fragments or regions of the genome that match a particular target sequence or target motif. A variety of known algorithms are publicly known and commercially available, *e.g.*, MacPattern (EMBL), BLASTN and BLASTX (NCBI). A "target sequence" can be any polynucleotide or amino acid sequence of six or more contiguous nucleotides or two or more amino acids, preferably from about 10 to 100 amino acids or from about 30 to 300 nt. A variety of comparing means can be used to accomplish comparison of sequence information from a sample (*e.g.*, to analyze target sequences, target motifs, or relative expression levels) with the data storage means. A skilled artisan can readily recognize that any one of the publicly available homology search programs can be used as the search means for the computer based systems of the present invention to accomplish comparison of target sequences and motifs. Computer programs to analyze expression levels in a sample and in controls are also known in the art.

A "target structural motif," or "target motif," refers to any rationally selected sequence or combination of sequences in which the sequence(s) are chosen based on a three-dimensional configuration that is formed upon the folding of the target motif, or on consensus sequences of regulatory or active sites. There are a variety of target motifs known in the art. Protein target motifs include, but are not limited to, enzyme active sites and signal sequences. Nucleic acid target motifs include, but are

not limited to, hairpin structures, promoter sequences and other expression elements such as binding sites for transcription factors.

A variety of structural formats for the input and output means can be used to input and output the information in the computer-based systems of the present invention. One format for an output means ranks the relative expression levels of different polynucleotides. Such presentation provides a skilled artisan with a ranking of relative expression levels to determine a gene expression profile..

As discussed above, the "library" of the invention also encompasses biochemical libraries of the polynucleotides of SEQ ID NOs:1-339, *e.g.*, collections of nucleic acids representing the provided polynucleotides. The biochemical libraries can take a variety of forms, *e.g.*, a solution of cDNAs, a pattern of probe nucleic acids stably associated with a surface of a solid support (*i.e.*, an array) and the like. Of particular interest are nucleic acid arrays in which one or more of SEQ ID NOs:1-339 is represented on the array. By array is meant an article of manufacture that has at least a substrate with at least two distinct nucleic acid targets on one of its surfaces, where the number of distinct nucleic acids can be considerably higher, typically being at least 10 nt, usually at least 20 nt and often at least 25 nt. A variety of different array formats have been developed and are known to those of skill in the art. The arrays of the subject invention find use in a variety of applications, including gene expression analysis, drug screening, mutation analysis and the like, as disclosed in the above-listed exemplary patent documents.

In addition to the above nucleic acid libraries, analogous libraries of polypeptides are also provided, where the polypeptides of the library will represent at least a portion of the polypeptides encoded by SEQ ID NOs:1-339.

The present invention will now be illustrated by reference to the following examples which set forth particularly advantageous embodiments. However, it should be noted that these embodiments are illustrative and are not to be construed as restricting the invention in any way.

EXAMPLES

EXAMPLE 1

ISOLATION OF THE POLYNUCLEOTIDES

cDNA libraries were prepared from PrEC, normal human prostate
5 epithelial cells, and LNCaP, a cell line derived from human lymph node metastasized
prostate cancer. PrEC cells are available from Clonetics, San Diego, California, U.S.A.
LNCaP cells are available from the ATCC, Manassas, Virginia, U.S.A.

Using a PCR technique and reagents available from Clontech, Palo Alto,
California, USA (CLONTECH PCR-Select™), mRNA up-regulated in LNCaP was
10 captured and amplified. The captured polynucleotide inserts were inserted in the
pCR2.1 vector, available from Invitrogen, Carlsbad, California, U.S.A. The vectors
with the inserts were transformed into *E. coli* cells.

EXAMPLE 2

CONFIRMATION OF DIFFERENTIAL DISPLAY

15 Ten clones were chosen at random, and up-regulation of the sequences of
these clone inserts in LNCaP versus PrEC cells was confirmed by Northern blot. Dot
blots were performed on 168 clones and up-regulation was confirmed.

Further, sequencing of the clones showed that prostate specific antigen
(PSA) and prostate specific membrane antigen (PSMA) sequences were isolated by the
20 process described in Example 1. A good correlation between increased serum PSA
levels and prostate tumors has been observed. PSMA, a cell surface antigen, is another
observed marker for prostate cancer. See Bosland, Encyclopedia of Cancer, Volume II,
pages 1283-1296 (1997), Academic Press. Thus, the data confirm that up-regulated
mRNA characteristic of gene expression in prostate cancer was cloned by the method of
25 Example 1.

EXAMPLE 3

POLYNUCLEOTIDE SEQUENCES

The sequence results are shown in SEQ ID NO:1-339. For the sequencing experiments, each clone was named SL-1 to SL-209. Inserts from some of the clones were sequenced more than once. Each sequence was designated a unique combination of two names. This unique combination is shown in Table 1 in columns 2 and 3, denoted as "Sequence Name" and "Other Seq Name."

Table 1 indicates all the sequences that correspond to each clone. Thus, all the sequences corresponding to clone SL-3, for example, are grouped together in Table 1.

Clones also were assigned cluster numbers. See column 4 of Table 1. Clones with the same cluster number generally comprise sequence derived from the same mRNA transcripts.

The last column of Table 1 indicates the nearest neighbor as determined by an alignment to sequences in a publicly available database.

A consensus for the sequence of each clone can be constructed by aligning the corresponding sequences or reverse complements thereof. Table 1 lists the names of all the sequences that correspond to each clone, and Table 2 shows the specific sequence that corresponds to each unique combination of Sequence Name and/or "Other Seq. Name."

The entire insert of some clones may not be represented by the sequences presented in Table 2. For example, the 5' and 3' ends of a clone insert may have been sequenced, but the sequences do not overlap. Additional sequence corresponding to the clone insert can be isolated and determined by constructing probes or primers from the sequences presented in Table 2 and a library of mRNA or cDNA from a prostate cell or prostate cancer cell line using the methods described above.

EXAMPLE 4

RESULTS OF PUBLIC DATABASE SEARCH

Both the nucleotide sequence and translations of masked sequences shown in the Sequence Listing were aligned with individual sequences that were publicly available. Similarity with individual sequences is used to determine the activity of the polypeptides encoded by genes corresponding to the sequences referred to in Table 2.

The sequences in SEQ ID NO:1-333 first were masked to remove the pCR2.1 vector sequences. Masking was performed by aligning the pCR2.1 sequences with each of SEQ ID NO:1-333 using the BLASTN program. Any sequence that produced an alignment with a score of less than 0.1 was masked.

A BLASTN vs. Genbank search was performed using the masked sequences with search parameters of greater than 99% overlap, 99% identity, and a p value of less than 1×10^{-40} and this resulted in discard of sequences. Sequences from this search also were discarded if the inclusive parameters were met, but the sequence was ribosomal or vector-derived.

The resulting sequences from the previous search were classified into three groups (1, 2 and 3 below) and searched in a BLASTX vs. NRP (non-redundant proteins) database search: (1) unknown (no hits in the Genbank search), (2) weak similarity (greater than 45% identity and p value of less than 1×10^{-5}), and (3) high similarity (greater than 60% overlap, greater than 80% identity, and p value less than 1×10^{-5}). This search resulted in discard of sequences as having greater than 99% overlap, greater than 99% identity, and p value of less than 1×10^{-40} .

The remaining sequences were classified as unknown (no hits), weak similarity, and high similarity (parameters as above). Two searches were performed on this set of sequences. First, a BLAST vs. EST database search resulted in discard of sequences with greater than 99% overlap, greater than 99% similarity and a p value of less than 1×10^{-40} ; sequences with a p value of less than 1×10^{-65} when compared to a database sequence of human origin were also excluded. Second, a BLASTN vs. Patent

GeneSeq database resulted in discard of sequences with greater than 99% identity; p value less than 1×10^{-40} ; greater than 99% overlap.

The masked sequences were translated in all six reading frames to determine the best alignment with the individual sequences. These amino acid sequences and nucleotide sequences are referred, generally, as query sequences, which
5 are aligned with the individual sequences.

Query and individual sequences were aligned using the BLAST programs, available over the world wide web.

Table 2 shows the results of the alignments. Table 2 refers to each
10 sequence by its Sequence Name and/or "Other Seq. Name" and includes the accession numbers and descriptions of nearest neighbors from the Genbank and Non-Redundant Protein searches.

The activity of the polypeptide encoded by the sequences referred to in Table 2 is expected to be the same or similar to the nearest neighbor reported in Table 2.
15 The accession number of the nearest neighbor is reported, providing a reference to the activities exhibited by the nearest neighbor. The search program and database used for the alignment also are indicated as well as a calculation of the p value.

Full length sequences or fragments of the polynucleotide sequences of the nearest neighbors can be used as probes and primers to identify and isolate the full
20 length sequence corresponding to sequence referred to in Table 2. Although full length sequences can be obtained from the cell lines described above, the nearest neighbors can indicate a tissue or cell type to be used to construct a library for the full-length sequences of those referred to in Table 2.

The sequences referred to in Table 2 and the translations thereof may be
25 human homologs of known genes of other species or novel allelic variants of known human genes. In such cases, these new human sequences may be suitable as diagnostics, prognostics, or therapeutics. As diagnostics, the human sequences exhibit greater specificity in detecting and differentiating human cell lines and types than homologs of other species. The human polypeptides are less likely to be immunogenic
30 when administered to humans than homologs from other species. Further, on

administration to humans, the encoded polypeptides can show greater specificity or can be better regulated by other human proteins than are homologs from other species.

In the preferred embodiments of the invention, the sequences shown in SEQ ID NO:1-339 consisting of the unmasked regions should be considered as the source of probes and primers, as these sequences are most representative of the distinguishing portions of these polynucleotides.

Generally, the masking itself does not influence the search results as shown in Table 2, except to eliminate multiple "hits" based on similarity to repetitive regions common to more than one polypeptide.

10

EXAMPLE 5

ANALYSIS OF CLONES SL-5, SL-9, SL-68, AND SL-173

Clone SL-5 (SEQ ID NO:14 and 334)

By Northern Blot, a 4.1 kb band was observed in expressed in normal prostate, testis, and lymphoblastic leukemia. It was also expressed in the cell lines LNCaP, and MDA PCa 2A and 2B (metastatic prostate cells into bone, androgen sensitive). Additional sequence corresponding to SEQ ID NO:14 is disclosed in SEQ ID NO:334.

Expression of SL-5 was investigated in normal and tumor tissues using immunohistochemistry. Antibody was prepared using two sequences from clone SL-5: H₂N-CGPRLPSFPCPTHEPSTGQLSK-CONH₂ and H₂N-CKDSQGLSDFKRNSRTTR-RSYKCCONH₂. Using polyclonal antibodies raised against a mixture of these polypeptides, immunohistochemistry (IHC) was performed on a variety of tumor tissues and corresponding normal tissue. The methods used were those described for the Manual IHC Protocol using BioGenex Reagents and Zymed AEC Solution, as known in the art. As shown in Figure 3, SL-5 was detected in the following tumor tissue: adrenal, ovary, breast, colon, prostate, uterus, cervix, kidney, pancreas, liver, stomach, lymphoma, seminoma, thyroid, melanoma, basal cell carcinoma, and other tumor tissues. Where comparative normal tissue was available, expression in the

corresponding normal tissue was lower than in the tumor tissue. Thus, SL-5 is a useful marker for cancer tissue including prostate.

Clone SL-9 (SEQ ID NO:18)

By Northern Blot, sequences from SL-9 were specifically expressed in
5 normal spleen and normal peripheral blood leukocyte. Expression of the SL-9 sequences was observed also in promyelocytic leukemia HL-60, chronic myelogenous leukemia K-562, lymphoblastic leukemia MOLT-4, Burkitt's lymphoma, and Raji cancer cell lines by Northern Blot.

Clone SL-173 (SEQ ID NO:153 and 154)

10 By Northern Blot, SL173 was found in every cancer cell line tested. Sequence from SL-173 has similarity to and may be a human homologue of the rat tumor transforming gene, which was found in the pituitary and described in Pei *et al.*, Mol. Endo. 11: 433-441 (1997) and Pei, J. Biol. Chem. 273(9): 5219-5225 (1998). When the rat tumor transforming gene was injected in NIH3T3cells, the cells became
15 transformed and were able to form a tumor when injected into mice. (Pei *et al.*, Mol. Endo. *supra*).

Clone SL-68 (SEQ ID NO:218 and 219)

Two transcripts, 2.6kb and 4.3kb, were observed in normal spleen, thymus and peripheral blood leukocytes, as well as in promyelocytic leukemia, chronic
20 myelogenous leukemia and lymphoblastic leukemia. The 4.3kb transcript was seen in normal testis, colon, Hela cell S3, colorectal adenocarcinoma and melanoma. The 2.6kb band was found in the following prostate cell lines: PC-3 (metastatic to bone, androgen insensitive); DU-145 (metastatic to brain, androgen insensitive); FFpz (primary cells derived from normal prostate epithelium); Ffca (primary cells derived
25 from Gleason Grade 3 prostate cancer epithelium); and WO-CA (primary cells derived from Gleason Grade 4 prostate cancer epithelium). However, higher expression was observed in LNCaP, MDA PCa 2A, HPV-7 and HPV-10. A 9.5kb transcript was also observed in MDA PCa 2A and 2B. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:335.

Clone SL69 (SEQ ID NO:220 and 221)

A weak 2.6kb band was observed in normal testis as well as in chronic myelogenous leukemia and lymphoblastic leukemia. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:336.

5

Clone SL86 (SEQ ID NO:242 and 243)

The sequence was expressed in normal prostate (2.7kb and 1.1kb) and testis (1.1kb). Low expression was observed in a cancer cell line blot using the cell lines described above. 1.1kb and 2.7kb transcripts were observed in the cell lines
10 LNCaP, and MDA PCa 2a and 2b (metastatic prostate cells into bone, androgen sensitive), and weak 1.1kb transcript was seen in HPV-7 (immortalized normal prostate cells) and HPV-10 (immortalized prostate cancer cells). Additional sequence corresponding to this clone is disclosed in SEQ ID NO:337.

15 Clone SL195 (SEQ ID NO:288 and 289)

The sequence was expressed in normal prostate as a 1.9kb transcript, and the same transcript also observed in all cell lines in the cancer cell line blot described above. It was more heavily expressed in HeLa cell S3 and chronic myelogenous leukemia, and was expressed in all prostate cell lines. Additional sequence
20 corresponding to this clone is disclosed in SEQ ID NO:338.

Clone SL197 (SEQ ID NO:292 and 293)

Two transcripts, 2.4kb and 4kb, were observed in normal prostate and testis. Two very weak 2.4kb signals were observed in Hela cell S3 and chronic
25 myelogenous leukemia. The 2.4kb transcript was expressed in all prostate cell lines. A 4kb transcript was found in LNCaP, MDA PCa 2A and 2B. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:339.

Those skilled in the art will recognize, or be able to ascertain, using not
30 more than routine experimentation, many equivalents to the specific embodiments of

the invention described herein. Such specific embodiments and equivalents are intended to be encompassed by the following claims.

All patents, published patent applications and publications cited herein are incorporated by reference as if set forth fully herein.

TABLE I

PATENT

Clone #	Sequence Name	Other Seq Name	Clone # Cluster #	Nearest Neighbor If Available
SL-001	SL001 SL001M13	19sl1	SL-001	S60754 (VNTR locus DXZ4)
SL-002	SL002	20sl2	SL-002	L07935 HUMVNTRA
SL-003	SL003	21sl3	SL-003	AB006625 - KIAA0287 gene
	SL003	35-sl3-1m13		
	SL003	35-sl3-1t7		
	SL003	37-sl3-1m13		
	SL003	39-sl3-1m13		
SL-004	SL004	22sl4	SL-004	
	SL004M13			
SL-005	SL005	23sl5	SL-005	
	SL005	30sl11b		
SL-006	SL006	24sl6	SL-006	
	SL006M13			cosmid genomic clone
SL-007	SL007	25sl7	SL-003	AB006625-KIAA0287
	SL007	28-sl7-1m13		
	SL007	28-sl7-1t7		
	SL007	30-sl7-1m13		
	SL007	30-sl7-1t7		
	SL007	32-sl7-1m13		
	SL007	32-sl7-1t7		
SL-008	SL008	26sl8	SL-008	HUMP65 E=9e-62 L-plastin. Phosphoprotein (p65)
SL-009	SL009	27sl9		
	SL009M13			
SL-010	SL010	28sl10	SL-005	
SL-011	SL011	29sl11a	SL-011	HSU10685 - MAGE-10 Gene
SL-012	SL012	31sl12	SL-011	HSU10685 - MAGE-10 Gene
SL-013	SL013	32sl13		
SL-015	SL015	34sl15	SL-015	HSU90336 - PEG3 mRNA
	SL015	46-sl15-2m13		
	SL015	47-sl15-2m13		
	SL015	47-sl15-2t7		
SL-016	SL016	10-sl16-1m13	SL-016	HSMRNAEN - Enkephalinase
	SL016	10-sl16-1t7		
	SL016	11-sl16-1m13		
	SL016	18-sl16-2m13		
	SL016	18-sl16-2t7		
	SL016	19-sl16-2m13		
	SL016	19-sl16-2t7		
	SL016	20-sl16-2m13		
	SL016	20-sl16-2t7		
	SL016	35sl16		

TABLE I

PATENT

	SL016	9-sl16-1t7		
SL-017	SL017	36sl17	SL-017	HUMORF01 - KIAA0101 gene
SL-028	SL028m13	B1	SL-028	
	SL028t7	B1		
SL-029	SL029m13	WE97.C1.M13	SL-029	
	SL029t7	WE97.C1.T7		
SL-032	SL032m13	WE97.D1.M13	SL-032	HSTPI1G TPI1 gene for triosephosphate isomerase.
	SL032t7	WE97.D1.T7		
SL-036	SL036m13	WE97.E1.M13	SL-036	HSU81599 homeodomain protein HOXB13
	SL036t7	WE97.E1.T7		
SL-037	SL037m13	C1	SL-005	
	SL037m13	WE97.F1.M13		
	SL037t7	C1		
SL-040	SL040m13	D1	SL-040	
	SL040t7	D1		
SL-041	SL041m13	E1	SL-016	
	SL041m13	WE97.H1.M13		
	SL041t7	E1		
	SL041t7	WE97.H1.T7		
SL-042	SL042m13	WE97.A2.M13	SL-008	HUMP65 phosphoprotein (p65) HUMPLASTA L-plastin gene
	SL042t7	WE97.A2.T7		
SL-044	SL044m13	WE97.B2.M13	SL-016	
	SL-044t7	WE97.B2.T7		
SL-045	SL045m13	WE97.C2.M13	SL-045	genomic DNA
	SL045t7	WE97.C2.T7		
SL-046	SL046m13	WE97.D2.M13	SL-046	
	SL046t7	WE97.D2.T7		
SL-047	SL047m13	WE97.E2.M13	SL-047	
	SL047t7	WE97.E2.T7		
SL-050	SL050m13	WE97.F2.M13	SL-050	
	SL050t7	WE97.F2.T7		
SL-051	SL051m13	WE97.G2.M13	SL-051	
	SL051t7	WE97.G2.T7		
SL-054	SL054m13	WE97.H2.M13	SL-054	
	SL054t7	WE97.H2.T7		
SL-055	SL055m13	F1	SL-050	
	SL055t7	F1		
	SL055t7	WE97.A3.T7		

TABLE 1

PATENT

SL-057	SL057m13 SL057t7	WE97.C3.M13 WE97.C3.T7	SL-057	
SL-058	SL058m13 SL058t7	WE97.D3.M13 WE97.D3.T7	SL-058	HSLRPR1GN leucine-rich primary response protein 1.
SL-061	SL061m13 SL061t7	WE97.E3.M13 WE97.E3.T7	SL-028	
SL-062	SL062m13 SL062t7	WE97.F3.M13 WE97.F3.T7	SL-028	
SL-064	SL064m13 SL064t7	WE97.G3.M13 WE97.G3.T7	SL-064	
SL-066	SL066m13 SL066t7	WE97.H3.M13 WE97.H3.T7	SL-016	
SL-067	SL067m13 SL067t7 SL067t7	H1 H1 WE97.A4.T7	SL-067	HUMKIAAP - KIAA0095 gene
SL-068	SL068m13 SL068t7	WE97.B4.M13 WE97.B4.T7	SL-068	
SL-069	SL069m13 SL069t7	WE97.C4.M13 WE97.C4.T7	SL-069	
SL-071	SL071m13 SL071t7	WE97.D4.M13 WE97.D4.T7	SL-071	
SL-072	SL072m13 SL072t7	WE97.E4.M13 WE97.E4.T7	SL-015	HSU90336 Human PEG3 mRNA AB006625 KIAA0287
SL-074	SL074m13 SL074t7	WE97.F4.M13 WE97.F4.T7	SL-074	
SL-075	SL075m13 SL075t7	WE97.G4.M13 WE97.G4.T7	SL-075	
SL-076	SL076m13 SL076t7	WE97.H4.M13 WE97.H4.T7	SL-076	
SL-077	SL077m13 SL077t7	WE97.A5.M13 WE97.A5.T7	SL-077	
SL-078	SL078m13 SL078m13 SL078t7	A2 WE97.B5.M13 A2	SL-016	BAC clone (with Alu) AB006625 - KIAA0287 gene
SL-081	SL081m13 SL081t7	WE97.E5.M13 WE97.E5.T7	SL-003	
SL-083	SL083m13 SL083t7	WE97.G5.M13 WE97.G5.T7	SL-083	
SL-084	SL084m13 SL084t7	WE97.H5.M13 WE97.H5.T7	SL-084	(HS295C6 Human DNA sequence)

TABLE 1

PATENT

SL-085	SL085m13	WE97.A6.M13	SL-085	
SL-086	SL086m13	WE97.B6.M13	SL-086	
	SL086t7	WE97.B6.T7		
SL-087	SL087m13	WE97.C6.M13	SL-087	EST and Mus musculus ras-GTPase-activating protein
	SL087t7	WE97.C6.T7		
SL-088	SL088m13	WE97.D6.M13	SL-015	HSU90336 Human PEG3 & AB006625 - KIAA0287 gene
	SL088t7	WE97.D6.T7		
SL-089	SL089m13	WE97.E6.M13	SL-089	
	SL089t7	WE97.E6.T7		
SL-090	SL090m13	D2	SL-090	
	SL090t7	D2		
SL-091	SL091m13	WE97.G6.M13	SL-091	
	SL091t7	WE97.G6.T7		
SL-092	SL092m13	WE97.H6.M13	SL-092	HUMPRKACB testis-specific cAMP-dependent protein kinase catalytic subunit (C-beta isoform)
	SL092t7	WE97.H6.T7		
SL-093	SL093m13	E2	SL-008	HUMLPLSTN2 L-plastin gene
	SL093t7	E2		
SL-094	SL094m13	WE97.B7.M13	SL-094	
	SL094t7	WE97.B7.T7		
SL-095	SL095m13	WE97.C7.M13	SL-003	AB006625 - KIAA0287
	SL095t7	WE97.C7.T7		
SL-096	SL096m13	WE97.D7.M13	SL-096	
	SL096t7	WE97.D7.T7		
SL-097	SL097m13		SL-071	
	SL097t7			
SL-098	SL098m13		SL-098	
	SL098t7			
SL-099	SL099m13		SL-016	
	SL099t7			
SL-100	SL100m13	F2	SL-085	SL100m13 Alu - 2e-71
	SL100m13			
	SL100t7	F2		
	SL100t7			
SL-102	SL102m13		SL-102	HSRPL32 ribosomal protein L32
	SL102t7			
SL-103	SL103m13		SL-103	
	SL103t7			
SL-105	SL105m13		SL-105	
	SL105t7			
SL-106	SL106m13		SL-106	
	SL106t7			
SL-107	SL107m13		SL-016?	SL107m13 -Alu - 2e-78
	SL107t7			
SL-110	SL110m13		SL-003	AB006625- KIAA0287 gene

TABLE I

PATENT

	SL110t7			
SL-111	SL111m13 SL111t7		SL-111	
SL-112	SL112m13 SL112t7		SL-112	
SL-115	SL115m13 SL115t7		SL-115	D86322 - calmegin
SL-116	SL116m13 SL116t7		SL-116	
SL-117	SL117m13 SL117t7		SL-117	HUMNUMB23 = HUMNPM Human nucleolar protein (B23) or Human nucleophosmin
SL-118	SL118m13 SL118t7		SL-118	
SL-119	SL119m13 SL119t7		SL-119	
SL-120	SL120m13 SL120t7		SL-046	
SL-121	SL121m13 SL121t7		SL-016	
SL-122	SL122m13 SL122t7		SL-122	HUMPRKACB testis-specific cAMP-dependent protein kinase catalytic subunit (C-beta isoform)
SL-124	SL124m13 SL124t7		SL-016	
SL-125	SL125m13 SL125t7		SL-125	HSU19145 GAGE-4 (US 5,648,226)
SL-127	SL127m13 SL127t7		SL-127	
SL-128	SL128m13 SL128t7		SL-005	
SL-130	SL130m13 SL130t7		SL-130	
SL-132	SL132m13 SL132t7		SL-011	HSU10685 MAGE-10 gene (US 5,612,201)
SL-134	SL134m13 SL134t7		SL-134	HSC70P Hsc 70 pseudogene (Heat Shock protein)
SL-135	SL135m13 SL135t7		SL-135	
SL-138	SL138m13 SL138t7		SL-051	
SL-139	SL139m13 SL139t7		SL-139	Homo sapiens cosmid
SL-142	SL142m13 SL142t7		SL-005	

TABLE I

PATENT

SL-143	SL143m13 SL143t7		SL-143	Genomic clone AC003978
SL-144	SL144m13 SL144t7		SL-144	E= 3-81
SL-145	SL145m13		SL-003	AB006625- KIAA0287 gene
SL-146	SL146m13 SL146t7	WE97.E7.M13 WE97.E7.T7	SL-146	
SL-147	SL147m13 SL147m13 SL147t7	G2 WE97.F7.M13 G2	SL-147	(1) HSCDC2R Human cell cycle control gene CDC2 (2) HSU29091 selenium-binding
SL-148	SL148m13 SL148t7	WE97.G7.M13 WE97.G7.T7	SL-016	
SL-149	SL149m13 SL149t7	H2 H2	SL-149	
SL-150	SL150m13 SL150t7	A3 A3	SL-150	"Human DNA sequence"
SL-151	SL151m13 SL151t7	WE97.B8.M13 WE97.B8.T7	SL-151	Genomic frag
SL-152	SL152m13 SL152t7	WE97.C8.M13 WE97.C8.T7	SL-152	
SL-153	SL153m13 SL153t7	WE97.D8.M13 WE97.D8.T7	SL-153	
SL-154	SL154t7	WE97.E8.T7	SL-154	HUMPAR5R - PAR-5 mRNA
SL-155	SL155m13 SL155t7	WE97.F8.M13 WE97.F8.T7	SL-028	SL155m13 - EST only in Mouse
SL-156	SL156m13 SL156t7	WE97.G8.M13 WE97.G8.T7	SL-016	
SL-157	SL157m13 SL157t7	WE97.H8.M13 WE97.H8.T7	SL-157	
SL-158	SL158m13 SL158t7	WE97.A9.M13 WE97.A9.T7	SL-011	HSU10685 MAGE-10 gene (US 5.612.201)
SL-159	SL159m13 SL159t7	WE97.B9.M13 WE97.B9.T7	SL-159	Chromosome 11 pac
SL-160	SL160m13 SL160t7	WE97.C9.M13 WE97.C9.T7	SL-051	
SL-161	SL161m13 SL161t7	WE97.D9.M13 WE97.D9.T7	SL-161	HUMP65 phosphoprotein (p65) HUMPLASTA L-plastin gene
SL-162	SL162m13 SL162t7	B3 B3	SL-162	
SL-163	SL163m13 SL163t7	WE97.F9.M13 WE97.F9.T7	SL-016	HSU75330 - NCAM21
SL-164	SL164m13 SL164t7	WE97.G9.M13 WE97.G9.T7	SL-016	
SL-165	SL165m13 SL165t7	WE97.H9.M13 WE97.H9.T7	SL-165	(genomic seq)

TABLE I

PATENT

SL-166	SL166m13 SL166t7 SL166t7	C3 C3 WE97.A10.T7	SL-166	
SL-167	SL167m13 SL167t7	WE97.B10.M13 WE97.B10.T7	SL-167	HUMLPAC109 lipoprotein-associated coagulation inhibitor (LACI) gene
SL-168	SL168m13 SL168t7	WE97.C10.M13 WE97.C10.T7	SL-168	
SL-169	SL169m13 SL169t7	WE97.D10.M13 WE97.D10.T7	SL-169	HUMNEUROF oligodendrocyte myelin glycoprotein (OMG)
SL-170	SL170m13 SL170t7	WE97.E10.M13 WE97.E10.T7	SL-170	
SL-171	SL171m13 SL171t7	WE97.F10.M13 WE97.F10.T7	SL-171	AB002374 - KIAA0376 gene
SL-172	SL172m13 SL172t7	WE97.G10.M13 WE97.G10.T7	SL-016	
SL-173	SL173m13 SL173t7	WE97.H10.M13 WE97.H10.T7	SL-173	
SL-174	SL174m13 SL174t7	D3 D3	SL-174	
SL-175	SL175m13 SL175t7	WE97.B11.M13 WE97.B11.T7	SL-016	
SL-176	SL176m13 SL176t7	WE97.C11.M13 WE97.C11.T7	SL-176	
SL-177	SL177m13 SL177t7	WE97.D11.M13 WE97.D11.T7	SL-177	
SL-178	SL178m13 SL178t7	WE97.E11.M13 WE97.E11.T7	SL-178	Human BAC clone
SL-179	SL179m13 SL179t7	WE97.F11.M13 WE97.F11.T7	SL-179	
SL-181	SL181m13 SL181t7	WE97.H11.M13 WE97.H11.T7	SL-181	
SL-182	SL182m13 SL182m13 SL182t7	F3 WE97.A12.M13 F3	SL-182	HUMAPEA apurinic/apynmidinic endonuclease (HAP1h) HSHAP1MR Human HAP1 mRNA
SL-183	SL183m13 SL183t7	WE97.B12.M13 WE97.B12.T7	SL-046	
SL-184	SL184m13 SL184t7	WE97.C12.M13 WE97.C12.T7	SL-016	
SL-186	SL186m13 SL186t7	WE97.D12.M13 WE97.D12.T7	SL-186	
SL-187	SL187m13 SL187t7	WE97.E12.M13 WE97.E12.T7	SL-187	
SL-188	SL188m13 SL188t7 SL188t7	G3 G3 WE97.F12.T7	SL-188	

TABLE 1

PATENT

SL-191	SL191m13 SL191t7	WE97.H12.M13 WE97.H12.T7	SL-181	
SL-192	SL192m13 SL192t7	H3 H3	SL-192	Human DNA sequence"
SL-193	SL193m13 SL193t7	A4 A4	SL-193	
SL-194	SL194m13 SL194t7	B4 B4	SL-194	HUMKG1DD - KIAA0098 gene
SL-195	SL195m13 SL195t7	C4 C4	SL-195	
SL-196	SL196m13 SL196t7	D4 D4	SL-196	HUMMAOAAA monoamine oxidase (MAOA)
SL-197	SL197m13 SL197t7	E4 E4	SL-197	
SL-198	SL198m13 SL198t7	F4 F4	SL-198	
SL-199	SL199m13 SL199t7	G4 G4	SL-016	
SL-201	SL201m13 SL201t7	A5 A5	SL-028	(Mouse ESTs only)
SL-202	SL202m13 SL202t7	B5 B5	SL-202	mitochondrial genome & ESTs(?)
SL-203	SL203m13 SL203t7	C5 C5	SL-040	
SL-204	SL204m13 SL204t7	D5 D5	SL-204	
SL-205	SL205m13 SL205t7	E5 E5	SL-205	
SL-206	SL206m13 SL206t7	F5 F5	SL-015	AB006625 - KIAA0287 gene
SL-207	SL207m13 SL207t7	G5 G5	SL-207	HUMFOLMES - DHFT dihydrofolate reductase gene
SL-208	SL208m13 SL208t7	H5 H5	SL-208	AB011165 - KIAA0593
SL-209	SL209m13 SL209t7	A6 A6	SL-209	
	batch 1			
	batch 2			
	batch 3			
	batch 4			

PATENT

TABLE 2

Seq. Name and/or Other Seq. Name	BlastN vs. Gb (nearest neighbor)		BlastX vs. NRIdb (nearest neighbor)		P(V)	Accession	Hit Description	Hit Description	P(V)
	Accession	Hit Description	Accession	Hit Description					
10-sl16-117	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	METALLOTHIONEIN (MT)>PIR2:S30567 metalothionein - place>GP:PPMMET_1 P.platea mRNA for metallothionein	<NONE>	<NONE>
18-sl16-217	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	MT_PLEPL			0.32
22-sl4	AC004601	***SEQUENCING IN PROGRESS ***Human Chromosome 11p14.3 PAC clone pD939mf6.11TGS phase 1.3 unordered pieces. Homo sapiens chromosome 16 BAC clone CIT987SK-270G1 complete sequence		VPI_BPCHP	0.016		PROTEIN VPI(ORF1)		1.0
27-sl9	AF001549	Homo sapiens Rad51-interacting protein mRNA, complete cds.	ALU6_HUMAN		7.2e-28		!!! ALU SUBFAMILY SP WARNING ENTRY !!! Mus musculus RAD51-binding protein RAB22 mRNA, complete cds		3.5e-07
32-sl3	AF006259		MMU93583_1		1.2e-09		Mus musculus transcription factor Genesis mRNA, complete cds; A winged helix retinoic- acid hepatocyte nuclear factor 3/forkhead transcription factor; HNF3B/TF1 transcription factor		1.2e-13
39-sl3-1ml3	U07056	Human prostatic acid phosphatase (Ac Pp) gene, exon 1.	MMU41047_1		1.1e-09				0.36
47-sl15-217	U08056	Sequence 2 from Patent EP 0273928.	<NONE>		4.8e-52	<NONE>	<NONE>	<NONE>	<NONE>
sl102ml3	AC004453	Homo sapiens PAC clone DJ0844F09 from 7p12-p13, complete sequence.		SIK1_YEAST	5.0e-50		SIK1 PROTEIN>PIR2:S48550 hypothetical protein YLR197w - yeast (Saccharomyces cerevisiae)>GP:SC120237_1 Saccharomyces cerevisiae SIK1p (SIK1) gene, complete cds; Possible microtubule binding protein; similar to GenBank Accession Number U14913		2.7e-09
sl103ml3	AC002542	Human BAC clone RG114A06 from 7q31, complete sequence.		MUSIGHV01B_1	0.78		Mouse CBX1 Ig heavy chain V1 region pseudogene, 5' end; Ig heavy chain precursor; Possible pseudogene		0.30
sl103l7	AC002542	Human BAC clone RG114A06 from 7q31, complete sequence.		MUSIGHV01B_1	7.0e-11		Mouse CBX1 Ig heavy chain V1 region pseudogene, 5' end; Ig heavy chain precursor; Possible pseudogene		0.25

PATENT

TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. Clb (nearest neighbour)			BlastX vs. NR2db (nearest neighbour)		
	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
s110617	148979	Sequence 6 from patent US 5627054.	4.3e-39	Y694_METJA	HYPOTHETICAL PROTEIN MJ0694>PIR2:F64386 hypothetical protein MJ0694 - Methanococcus jannaschii>GP:U67516_8 Methanococcus jannaschii section 58 of 150 of the complete genome; Conserved hypothetical protein; Similar to SP-Q12499 [PID:1420682P]	1.5e-08
s110717.fsa	AL021395	Human DNA sequence *** SEQUENCING IN PROGRESS *** from clone 269M15; HTGS phase 1. HIS-1008-A2-A05-MF:abi CTT Human Genomic Sperm Library C' Homo sapiens genomic clone Plate=CT 330 Col=10 Row=A, genomic survey sequence.	2.6e-07	ALU4_HUMAN	!!! ALU SUBFAMILY SB2 WARNING ENTRY !!! !!!	0.45
s11247	B3134	Human DNA sequence from PAC 138A5 on chromosome X contains ESTs.	1.0e-55	ALU7_HUMAN	!!! ALU SUBFAMILY SQ WARNING ENTRY !!! HYPOTHETICAL TRP-ASP REPEATS CONTAINING PROTEIN C18B11.10 IN CHROMOSOME 1>PIR2:S58306 hypothetical protein spac18b11.10 - fission yeast (Schizosaccharomyces pombe)>GP:SPAC18B11.10 Spombe chromosome 1 cosmid c18B11; Unknown; SPAC18B11.10.1e	1.2e-14
s112717	Z83818	Homo sapiens chromosome 5, P1 clone 1029A7 (LBNL.H15), complete sequence.	2.8e-16	YA3A_SCIPO	Homo sapiens BAC clone RG013N12 from 7q31.2, complete sequence; H. RG013N12.gw:1335199.a	0.97
s113513	AC003959	Human PAC clone DJ055C04 from 7p15-7p21, complete sequence.	1.8e-57	AC004416.5	A: thaliana transcribed sequence; clone VDV28- 22792, 3' end; similar to nonspecific lipid- transfer protein precursor	0.016
s113517	AC003044	Homo sapiens: HTGS phase 1, 53 unordered pieces.	3.8e-25	ATT50669.1	<NONE>	0.77
s114413	AC003684	*** SEQUENCING IN PROGRESS *** Human Chromosome 7 BAC Clone 155801; HTGS phase 1, 11 unordered pieces.	2.2e-10	<NONE>	<NONE>	<NONE>
s11447	AC004089		0.25	<NONE>	<NONE>	<NONE>

PATENT

TABLE 2

Seq. Name and/or Other Seq. Name	BlastN vs. Cb (nearest neighbor)		BlastX vs. NR1'db (nearest neighbor)		P(V)	Hit Description	P(V)
	Accession	Hit Description	Accession	Hit Description			
SI 149m13 WE97117.M13	M87923	Human carcinoma cell-derived Alu RNA transcript, clone CE12.	ALU2_HUMAN	!!! ALU SUBFAMILY SB WARNING ENTRY !!!	7.2e-55	!!! ALU SUBFAMILY SB WARNING ENTRY !!!	4.7e-17
SI 150m13 WE 97AS.M13	AF019122	Homo sapiens DNA polymerase gamma (POLG) gene, nuclear gene encoding mitochondrial protein, partial sequence, genomic survey sequence.	<NONE>	<NONE>	5.5e-07	<NONE>	<NONE>
SI 152m13	AF022186	Cyamidum caldarium RK1 chloroplast sequence	<NONE>	<NONE>	0.11	<NONE>	<NONE>
SI 15217	AC002524	Homo sapiens Xp22 BAC GSHB-257G1 (Genome Systems BAC Library) complete sequence.	F40201	artifact-warning sequence (translated ALU class F) - human	3.5e-28	artifact-warning sequence (translated ALU class F) - human	1.2e-05
SI 153m13	U29895	Human 4-hydroxyphenylpyruvate-dioxygenase gene, complete cds.	C40201	artifact-warning sequence (translated ALU class C) - human	4.4e-15	artifact-warning sequence (translated ALU class C) - human	0.49
SI 15317	U29895	Human 4-hydroxyphenylpyruvate-dioxygenase gene, complete cds.	A46010	X-linked retinopathy protein (C-terminal, clone XE11.8c) - human (fragment)>GP:558722_1 X-linked retinopathy protein [3' region, clone XE11.8c] [human, mRNA Partial, 390 nt]; This sequence comes from Fig. 5	5.1e-09	GENOME POLYPROTEIN (CONTAINS: N-TERMINAL PROTEIN; HELPER COMPONENT PROTEINASE (EC 3.4.22.-) (HC-PRO); 42-50 KD PROTEIN; CYTOPLASMIC INCLUSION PROTEIN (CI); 6 KD PROTEIN; NUCLEAR INCLUSION PROTEIN A (NI-A) (EC 3.4.22.-) (49K PROTEINASE); 149	0.070
SI 155m13	Z99286	Caenorhabditis elegans cosmid Y7A9C, complete sequence.	POLG_PRSVII	GENOME POLYPROTEIN (CONTAINS: N-TERMINAL PROTEIN; HELPER COMPONENT PROTEINASE (EC 3.4.22.-) (HC-PRO); 42-50 KD PROTEIN; CYTOPLASMIC INCLUSION PROTEIN (CI); 6 KD PROTEIN; NUCLEAR INCLUSION PROTEIN A (NI-A) (EC 3.4.22.-) (49K PROTEINASE); 149	0.016	GENOME POLYPROTEIN (CONTAINS: N-TERMINAL PROTEIN; HELPER COMPONENT PROTEINASE (EC 3.4.22.-) (HC-PRO); 42-50 KD PROTEIN; CYTOPLASMIC INCLUSION PROTEIN (CI); 6 KD PROTEIN; NUCLEAR INCLUSION PROTEIN A (NI-A) (EC 3.4.22.-) (49K PROTEINASE); 149	1.0
SI 157m13	U91321	Human Chromosome 16 BAC clone CF1987SK-A-363E6, complete sequence.	ALU1_HUMAN	!!! ALU SUBFAMILY J WARNING ENTRY !!!	6.0e-26	!!! ALU SUBFAMILY J WARNING ENTRY !!!	4.5e-11

PATENT

TABLE 2

Seq. Name and/or Other Seq. Name	BlastN vs. Gb (nearest neighbor)		BlastX vs. NRPdl (nearest neighbor)		P(V)
	Accession	Hit Description	Accession	Hit Description	
SI.16047	<NONE>	<NONE>	CA34_HUMAN	PROCOLLAGEN ALPHA 3(IV) CHAIN PRECURSOR>PIR1:CGHU3B collagen alpha 3(IV) chain precursor, long splice form - human>GPN:HSCOL4A3_1 H:sapiens COL4A3 chain>GP:HSCOL4A3_1 H:sapiens COL4A3 mRNA: Type IV collagen alp	0.99
SI.16217 WI:97.139.17	X58263	Mouse microsatellite marker DNA D4SM116b, 4.	PRF1_LYCES	36.4 KD PROLINE-RICH PROTEIN>PIR2:S19129 proline-rich protein TPRP-F1 - tomato>GP:LETPRPFI_1 L; esculentum TPRP-F1 gene for a proline rich protein	0.99
SI.16917	AC004687	*** SEQUENCING IN PROGRESS *** Homo sapiens chromosome 17, clone hRPC1171_1_10; HTGS phase 1, 4 unordered pieces.	<NONE>	<NONE>	<NONE>
SI.17417	<NONE>	<NONE>	A54895	mucin2, intestinal/tracheal - rat (fragment)	0.13
SI.176m13	Z73424	Caenorhabditis elegans cosmid C44B9, complete sequence	<NONE>	<NONE>	<NONE>
SI.176l7	Z83119	Caenorhabditis elegans cosmid R05110, complete sequence	<NONE>	<NONE>	<NONE>
SI.177m13	AI.022279	Caenorhabditis elegans DNA *** SEQUENCING IN PROGRESS *** from clone Y43F11; HTGS phase 1.	ANX7_BOVIN	ANNEXIN VII (SYNEXIN) (FRAGMENT)>PIR2:A27695 synexin - bovine (fragment)	0.0018
SI.177l7	AC002416	Human Chromosome X, complete sequence.	<NONE>	<NONE>	<NONE>
SI.179m13	AI030052	Caenorhabditis elegans cosmid T22D1.	CMU23045_8	Cepaea nemoralis complete mitochondrial genome; ATPase subunit 8>GP:CMU23045_8 Cepaea nemoralis complete mitochondrial genome; ATPase subunit 8	0.98

PATENT

TABLE 2

Seq. Name and/or Other Seq. Name	BlastN vs. Gb (nearest neighbor)		BlastX vs. NR1db (nearest neighbor)		P(V)	Accession	Hit Description	P(V)
	Accession	Hit Description	Accession	Hit Description				
SI.17917	L41631	Mus musculus glucokinase gene, complete cds.	<NONE>	<NONE>	0.017			<NONE>
SI.181m13	Z98867	Caenorhabditis elegans DNA *** SEQUENCING IN PROGRESS *** from clone Y52B11; HTGS phase I.	PS0245	hypothetical protein (cpcG4 region) - Anabaena sp. (strain PCC 7120) (fragment)>GP:ANARODCORA_6 Anabaena sp; cpcF gene, 3' end; cpcG1, cpcG2, cpcG3, and cpcG4 genes, complete cds; and unknown ORF, 3' end	0.017			0.99
SI.18117	Z98867	Caenorhabditis elegans DNA *** SEQUENCING IN PROGRESS *** from clone Y52B11; HTGS phase I.	PS0245	hypothetical protein (cpcG4 region) - Anabaena sp. (strain PCC 7120) (fragment)>GP:ANARODCORA_6 Anabaena sp; cpcF gene, 3' end; cpcG1, cpcG2, cpcG3, and cpcG4 genes, complete cds; and unknown ORF, 3' end	0.018			0.99
SI.191m13	Z98867	Caenorhabditis elegans DNA *** SEQUENCING IN PROGRESS *** from clone Y52B11; HTGS phase I.	<NONE>	<NONE>	0.019			<NONE>
SI.195m13	AC004626	*** SEQUENCING IN PROGRESS *** Homo sapiens chromosome #16q12.1+16q22/23+1q11/12 BAC clone CIT987SK-A-427110; HTGS phase I, 15 unordered pieces.	HSU55091.1	Human isolate HR015 T cell receptor V-beta complementarity determining region 3 mRNA, partial cds	0.050			1.0
SI.19517	AC004626	*** SEQUENCING IN PROGRESS *** Homo sapiens chromosome #16q12.1+16q22/23+1q11/12 BAC clone CIT987SK-A-427110; HTGS phase I, 15 unordered pieces.	S54078	probable membrane protein YPR056w - yeast (Saccharomyces cerevisiae)>GP:SC9499X_12 S:cerevisiae chromosome XVI cosmid 9499; Unknown; U19499; 12, unknown, len: 338, CAl: 0; 12, similar to S44455, transcription factor BT12 chain p34, (29,3% identit	0.053			0.64

PATENT

TABLE 2

Seq. Name and/or Other Seq. Name	BlastN vs. Gb (nearest neighbor)		BlastX vs. NRIdb (nearest neighbor)		P(V)	Accession	Hit Description	P(V)
	Accession	Hit Description						
SI.197m13	AF003134	Caenorhabditis elegans cosmid ZC581.			0.99	<NONE>	<NONE>	<NONE>
SI.1977	U43400	Human herpesvirus-7 (HHV7) J1, complete virion genome.			0.99	<NONE>	<NONE>	<NONE>
SI.197	V00073	Sindbis virus sequence complementary to 26S messenger RNA.			3.2e-09	<NONE>	<NONE>	<NONE>
SI.201m13	AB001684	Chlorella vulgaris C-27 chloroplast DNA, complete sequence.			0.0013	SIU05069.1	Simian immunodeficiency virus SIVRHE543 clone 5-4 envelope glycoprotein (env) gene, V1 region, partial cds	1.0
SI.2017	AB001684	Chlorella vulgaris C-27 chloroplast DNA, complete sequence.			0.0014	HUMLTBP.1	Homo sapiens (clone H14.4) latent transforming growth factor- β binding protein (L-TBP-11.3) gene, partial cds; Latent transforming growth factor-binding protein	1.0
SI.204m13	Z49910	Caenorhabditis elegans cosmid F44G4, complete sequence.			1.0e-11	CEI44G4.1	Caenorhabditis elegans cosmid F44G4, complete sequence; F44G4.1; Similarity to 35.1KD hypothetical yeast protein (Swiss Prot accession number P38805); cDNA EST CEMSE65F comes from this	5.6e-72
SI.2047 SI.28m13	Z49910 <NONE>	Caenorhabditis elegans cosmid F44G4, complete sequence. <NONE>			9.3e-12 <NONE>	CEI44G4.1 <NONE>	Caenorhabditis elegans cosmid F44G4, complete sequence; F44G4.1; Similarity to 35.1KD hypothetical yeast protein (Swiss Prot accession number P38805); cDNA EST CEMSE65F comes from this <NONE>	2.3e-71 <NONE>
SI.287	Z84469	Human DNA sequence *** SEQUENCING IN PROGRESS *** from clone 300013; HTGS phase 1.			2.9e-53	<NONE>	<NONE>	<NONE>

PATENT

TABLE 2

Seq. Name and/or Other Seq. Name	BlastN vs. Clb (nearest neighbor)		BlastX vs. NRI (db (nearest neighbor)		P(V)
	Accession	Hit Description	Accession	Hit Description	
SI 29ml3	AC004465	Homo sapiens 12q24 PAC RPC13-363118 (Roswell Park Cancer Institute Human PAC library) complete sequence.	MCRA_METFE	METHYL-COENZYME M REDUCTASE ALPHA SUBUNIT (EC 1.8.-.-) > GP:MEFMCRC_5 M:fervidus methyl coenzyme M reductase component C genes mcrA, mcrB, mcrC, mcrD, and mcrG, complete cds; Methyl coenzyme M reductase alpha subunit	0.95
SI 29l7	AC004465	Homo sapiens 12q24 PAC RPC13-363118 (Roswell Park Cancer Institute Human PAC library) complete sequence.	MCRA_METFE	METHYL-COENZYME M REDUCTASE ALPHA SUBUNIT (EC 1.8.-.-) > GP:MEFMCRC_5 M:fervidus methyl coenzyme M reductase component C genes mcrA, mcrB, mcrC, mcrD, and mcrG, complete cds; Methyl coenzyme M reductase alpha subunit	0.97
SI 4MI3	D42085	Human mRNA for KIAA0095 gene, complete cds.	HUMKIAAP_1	Human mRNA for KIAA0095 gene, complete cds; KIAA0095 gene is related to S:cerevisiae NIC96 gene	3.6e-12
SI 54ml3	Z68694	Human DNA sequence from cosmid c117718, between markers DXS366 and DXS87 on chromosome X.	HUMF8L1A_1	Human factor VIII gene 1.1 element insertion DNA; Unknown protein; ORF; putative	1.2e-12
SI 61l7	AB001684	Chlorella vulgaris C-27 chloroplast DNA, complete sequence. *** SEQUENCING IN PROGRESS *** Plasmodium falciparum 3D7 chromosome 12 p1-yAC812 genomic sequence; HTGS phase 1, 26 unordered pieces.	AF004841_1	Homo sapiens CDO mRNA, complete cds; Immunoglobulin superfamily member; contains fibronectin type III-like domain	1.0
SI 62l7	AC004153	*** SEQUENCING IN PROGRESS *** Plasmodium falciparum 3D7 chromosome 12 p1-yAC293 genomic sequence; HTGS phase 1, 18 unordered pieces.	<NONE>	<NONE>	<NONE>
SI 68ml3	AC004157		<NONE>	<NONE>	<NONE>

PATENT

TABLE 2

Seq. Name and/or Other Seq. Name	BlastN vs. Gb (nearest neighbor)		BlastX vs. NRpdb (nearest neighbor)		P(V)	Accession	Hit Description	P(V)
	Accession	Hit Description	Accession	Hit Description				
SI.6817	AJ226619	Ciona intestinalis genomic fragment, clone 17H6, genomic survey sequence		<NONE>	0.064		<NONE>	<NONE>
SI.69ml3.6a	Z22789	H.sapiens CAGT repeat polymorphism sequence.	AE001779_2	Borrelia burgdorferi (section 65 of 70) of the complete genome; Competence protein I; putative; Similar to GB:M59751 SP:P31773 PID:1573409 percent identity: 27.00; identified by sequence	1.9e-22			1.0
SI.6917	AI010138	Plasmodium falciparum DNA *** SEQUENCING IN PROGRESS *** from contig 3-66, complete sequence.	AE001779_2	Borrelia burgdorferi (section 65 of 70) of the complete genome; Competence protein I; putative; Similar to GB:M59751 SP:P31773 PID:1573409 percent identity: 27.00; identified by sequence	0.21			1.0
SI.75ml3	AC002536	Human Chromosome 11 p16 pDJ1075120, complete sequence.	BTRNAT3_1	B.taurus mRNA for complete thrombospondin	1.0			0.0074
SI.7717	AF012886	Buchnera aphidicola (UDP-N- acetylmuramate; L-alanine ligase (murC'157), D-alanine; D-alanine ligase (ddlB), cell division protein (ftsA), cell septation protein (ftsZ), and pls genes, complete cds.	<NONE>	<NONE>	0.40		<NONE>	<NONE>
SI.86ml3	Z69790	Caenorhabditis elegans cosmid F33C8, complete sequence.	<NONE>	<NONE>	0.020		<NONE>	<NONE>
SI.8617	U19368	Acanthamoeba sp. 16S ribosomal RNA gene, mitochondrial gene encoding mitochondrial RNA, partial sequence.	<NONE>	<NONE>	0.054		<NONE>	<NONE>
SI.90ml3	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>		<NONE>	<NONE>
SI.94ml3	X95276	P. falciparum complete gene map of plastid-like DNA (IR-B).	SHFORF_1	Shigella sonnei DNA for 26 ORFs, complete cds; ORF1	0.0096			0.15

PATENT

TABLE 2

Seq. Name and/or Other Seq. Name	BlastN vs. C1b (nearest neighbor)		BlastX vs. NRI'db (nearest neighbor)		P(V)
	Accession	Hit Description	Accession	Hit Description	
SI 947	A1022313	Human DNA sequence *** SEQUENCING IN PROGRESS *** from clone 1119A7; HTGS phase I.	A46010	X-linked retinopathy protein (C-terminal, clone XEH.8c) - human (fragment)>GP:S58722_1 X- linked retinopathy protein [3' region, clone XEH.8c] [human, mRNA Partial, 390 nt]; This sequence comes from Fig. 5	5.7e-07

CLAIMS

WE CLAIM:

1. A method of diagnosing cancer, tumor progression, hyperproliferative cell growth or accompanying biological and physical manifestations comprising:

- (a) providing a polynucleotide probe that comprises a sequence capable of hybridizing to any one of the sequences shown in SEQ ID NO:1-339 or complement thereof;
- (b) contacting a biological sample for diagnosis with said probe under hybridizing conditions that permit formation of a duplex; and
- (c) determining the presence of said duplex.

2. The method of claim 1, wherein said polynucleotide probe comprises at least eight contiguous nucleotides of any of SEQ ID NO:1-339 or complement thereof.

3. The method of claim 2, wherein said polynucleotide probe comprises 8 contiguous nucleotides of the sequences of the clones selected from the group consisting of SL-5, SL-6, SL-9, SL-11, SL-13, SL-68, SL-69, SL-86, SL-90, SL-100, SL-107, SL-124, SL-135, SL-139, SL-143, SL-152, SL-153, SL-173, SL-177, SL-195, and SL-197.

4. A method of diagnosing cancer, tumor progression, or hyperproliferative cell growth comprising:

- (a) providing an antibody capable of binding to a polypeptide encoded by any one of SEQ ID NO:1-339 or complement thereof;
- (b) contacting a biological sample for diagnosis with said antibody under binding conditions that permit formation of an antibody-polypeptide complex; and
- (c) determining the presence of said complex.

5. The method of claim 4, wherein said antibody is capable of binding to a polypeptide comprising at least six contiguous amino acid of a polypeptide encoded by any one of SEQ ID NO:1-339 or complement thereof.

6. The method of claim 5, wherein said polypeptide comprises at least six contiguous amino acids of a polypeptide encoded by any one the sequences of the clones selected from the group consisting of SL-5, SL-6, SL-9, SL-11, SL-13, SL-68, SL-69, SL-86, SL-90, SL-100, SL-107, SL-124, SL-135, SL-139, SL-143, SL-152, SL-153, SL-173, SL-177, SL-195, and SL-197.

7. A diagnostic kit comprising:

(a) a diagnostic reagent comprising a polynucleotide probe that comprises a sequence capable of hybridizing to any one of SEQ ID NO:339 or complement thereof when said sequence is present in a test biological sample;

(b) a normal biological sample; and

(c) instructions for detecting differences that exist between the levels of duplexes in said test biological sample as compared to said normal biological sample.

8. A method of treating a mammal with cancer, tumor progression, hyperproliferative cell growth or accompanying biological and physical manifestations, said method comprising administering to said mammal a composition that comprises a therapeutically effective amount of a polynucleotide comprising a sequence capable of hybridizing under stringent conditions to any one of SEQ ID NO:1-339 or complement thereof.

9. The method of claim 8, wherein said polynucleotide comprises at least eight contiguous nucleotides of any of SEQ ID NO:1-339 or complement thereof.

10. The method of claim 9, wherein said polynucleotide is an antisense construct.

11. The method of claim 9, wherein said polynucleotide is a ribozyme construct.

12. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of any one of SEQ ID NO:2, 5, 49, 50, 99, 100, 115, 116, 118, 130, 131, 140, 144, 145, 146, 157, 158, 159, 163, 164, 165, 166, 177, 178, 180, 211, 212, 213, 218, 219, 220, 221, 229, 232, 233, 242, 243, 248, 249, 254, 256, 257, 259, 272, 273, 277, 288, 289, 292, 293, 316, 317, and 330;
 - (b) a polynucleotide encoding a variant of the polypeptide encoded by (a);
- and
- (c) a polynucleotide encoding a protein expressed by a polynucleotide having the sequence of at least one of sequences of (a).
13. A vector comprising the polynucleotide of claim 12.
14. A host cell comprising the vector of claim 13.
15. A composition comprising a polypeptide, wherein the polypeptide is selected from the group consisting of:
- (a) a polypeptide encoded by any one of the polynucleotides of claim 12,
- and
- (b) a variant of the polypeptide of (a).

1/5

Sequence Range: 1 to 1383

```

      10      20      30      40      50      60
TTA CTC ACT ATA GGG CTC GAG CGG CCG CCC GGG CAG GTG TAA AAA TAA AAT GAC AGT TTG AAC ATA
AAT GAG TGA TAT CCC GAG CTC GCC GGC GGG CCC GTC CAC ATT TTT ATT TTA CTG TCA AAC TTG TAT
<E S Y P E L P R G P L H L F L I V T Q V Y

      70      80      90      100     110     120     130
CAA AAC CCA CCC CAT TCC TAT AGA GCC TAG TAC TAC ACT ACC CCC TCC CAA CTT TAG CCT CCA CAT
GTT TTG GGT GGG GTA AGG ATA TCT CGG ATC ATG ATG TGA TGG GGG AGG GTT GAA ATC GGA GGT GTA
<L V W G M G I S G L V V S G G G L K L R W M

      140     150     160     170     180     190
ATA GTA ATG TGC TTG GAA CAC AAA AAA CAC TTC ATA AAT TGT GCT GAA TGA AAT CAT TTC CAT GAG
TAT CAT TAC ACG AAC CTT GTG TTT TTT GTG AAG TAT TTA ACA CGA CTT ACT TTA GTA AAG GTA CTC
<Y Y H A Q F V F F V E Y I T S F S I M E M

      200     210     220     230     240     250     260
TGT TTA TGG ATT TTG AGT TCA TTT GTA CCT TTT ACC TAA AAT TCT AGC CAC TTT AAT TTG GAG AGT
ACA AAT ACC TAA AAC TCA AGT AAA CAT GGA AAA TGG ATT TTA AGA TCG GTG AAA TTA AAC CTC TCA

      270     280     290     300     310     320     330
TTC CAG AGC AAA GGA CCT TTT ACC TAA AAT TCT AGC CAC TTT AAT TTG GAG AGT TTC CAG AGC AAA
AAG GTC TCG TTT CCT GGA AAA TGG ATT TTA AGA TCG GTG AAA TTA AAC CTC TCA AAG GTC TCG TTT

      340     350     360     370     380     390
GGG CAC AGA TCC CAG GCA TAA CAA CGC TTT GCG TAT ACA GCA ACC AAT ATC TTG TCA ACC CAA GAA
CCC GTG TCT AGG GTC CGT ATT GTT GCG AAA CGC ATA TGT CGT TGG TTA TAG AAC AGT TGG GTT CTT

      400     410     420     430     440     450     460
AGT TCC TCC ATT GAT ACC TAG TAG AAA TAG CCC AGT TTT TAA AGT CCT CAA AAC TGT AAC AAA TTA
TCA AGG AGG TAA CTA TGG ATC ATC TTT ATC GGG TCA AAA ATT TCA GGA GTT TTG ACA TTG TTT AAT

      470     480     490     500     510     520
CTT GTT TTT AAA ATT TAA CTT AAA TTA ATA CAA TCA GAT TTT TGT GTT ATT TGG GTA TTA GAG TAT
GAA CAA AAA TTT TAA ATT GAA TTT AAT TAT GTT AGT CTA AAA ACA CAA TAA ACC CAT AAT CTC ATA

      530     540     550     560     570     580     590
GTT AAA GCA CAT ATA TCC CAG AGA CAT AGA GTT TCC GTT TCA AAA AGT CAT GCA TTC ATG TGT GCT
CAA TTT CGT GTA TAT AGG GTC TCT GTA TCT CAA AGG CAA AGT TTT TCA GTA CGT AAG TAC ACA CGA

      600     610     620     630     640     650     660
AAT GAC AAT CCT ATC CTG ACC CGC TAT GTG ACT TGT ATC TCT AAA CCA TAG GCT TTC CTG AAT TTT
TTA CTG TTA GGA TAG GAC TGG GCG ATA CAC TGA ACA TAG AGA TTT GGT ATC CGA AAG GAC TTA AAA

      670     680     690     700     710     720
ATC TGT TAA TTT AAC CCT GAT TTC TCA GCA GCA GCT TCT CTT TGT AAA TAG ACT TGC CTC TTC TGT
TAG ACA ATT AAA TTG GGA CTA AAG AGT CGT CGT CGA AGA GAA ACA TTT ATC TGA ACG GAG AAG ACA

      730     740     750     760     770     780     790
GTC TGA CCT CTG CTC CTC ATA ATC AGA TTA ACT CAG ATA AAG CTG CTT CAG GGA AGA GGT CAA AAC
CAG ACT GGA GAC GAG GAG TAT TAG TCT AAT TGA GTC TAT TTC GAC GAA GTC CCT TCT CCA GTT TTG

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FIG. 1A

2/5

800	810	820	830	840	850
CGT TGC CAA AAA TAG TAG	TTG CCC TAC TTC AGT CTA TTT TCA ACA GAG TAG CCA GGA GAT CCT GTT				
GCA ACG GTT TTT ATC ATC	AAC GGG ATG AAG TCA GAT AAA AGT TGT CTC ATC GGT CCT CTA GGA CAA				
860	870	880	890	900	910
CAC ACC AAA GTC CAA TCA GCC CTA CTG TTA GCA CTC TGC TCA CAA GCC TCC AGT GGC TTC CGA CCT					
GTG TGG TTT CAG GTT AGT CGG GAT GAC AAT CGT GAG ACG AGT GTT CGG AGG TCA CCG AAG GCT GGA					
930	940	950	960	970	980
CAC TCA CAG TAA AAG CCA AGT CAT CCT TTA GCC TAT GAT GTC CTA CAT GAT TTG AAT TCC CTT CCA					
GTG AGT GTC ATT TTC GGT TCA GTA GGA AAT CGG ATA CTA CAG GAT GTA CTA AAC TTA AGG GAA GGT					
1000	1010	1020	1030	1040	1050
TTG ATT TTT GTC ACT GAT TTT TAA AAA TCC AAA TTC ATT CTC ATA CAG CTG AAT TGT CCT CTT TGC					
AAC TAA AAA CAG TGA CTA AAA ATT TTT AGG TTT AAG TAA GAG TAT GTC GAC TTA ACA GGA GAA ACG					
1060	1070	1080	1090	1100	1110
TTT AAG TAT GCC AGG ATT ATT TCT ACC TCA GGG CCT TTG CAC TTG ATA TTC CCT TCA CCT TTT CCA					
AAA TTC ATA CGG TCC TAA TAA AGA TGG AGT CCC GGA AAC GTG AAC TAT AAG GGA AGT GGA AAA GGT					
1130	1140	1150	1160	1170	1180
AGA TAG TTA TTC CCT CAC CTC AGT CAA GCC TTT ATT TAG ATG CCC CCT TCT CAT CAA GGC ATT CTC					
TCT ATC AAT AAG GGA GTG GAG TCA GTT CGG AAA TAA ATC TAC GGG GGA AGA GTA GTT CCG TAA GAG					
1190	1200	1210	1220	1230	1240
TGA TCT CCT TAT TTA AAT GTA TGA CAC CCC TTC TTT GCT TTA CAT TTA ATC AGA ACA TGT GTC ACT					
ACT AGA GGA ATA AAT TTA CAT ACT GTG GGG AAG AAA CGA AAT GTA AAT TAG TCT TGT ACA CAG TGA					
1260	1270	1280	1290	1300	1310
ATC TAG CAT ATA ATA CAT TTG CTT GAC CTC TTT TGT TTA CTG TCT ATG CCT CCT GAA TAC TGT GTA					
TAG ATC GTA TAT TAT GTA AAC GAA CTG GAG AAA ACA AAT GAC AGA TAC GGA GGA CTT ATG ACA CAT					
1330	1340	1350	1360	1370	1380
AGC TCC ACG ATA CAG GCA CTT TTC TCT ATT TCG AGC ACT GTT GTA TTA CAG AGC CTT AAA					
TCG AGG TSC TAT GTC CGT GAA AAG AGA TAA AGC TCG TGA CAA CAT AAT GTC TGC GAA TTT					

FIG. 1B

3/5

Sequence Range: 1 to 1815

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      10      20      30      40      50      60
ACT TTT TGT TCA TTT TGA TTT TTG GAT AAT GCA AAA TTA TAG ATT TTT TAA AAA TTA TAT TCA AAG
AAA ACA AGT AAA ACT AAA AAC CTA TTA CGT TTT AAT ATC TAA AAA ATT TTT AAT ATA AGT TTC TTA

      70      80      90      100     110     120     130
AAT ACT GAG TGC AAG ACA ATC TTT CTA GGT TAA AAA ATA TCT TAT AAA CCT GGA TTG TCA ATT ATT
CTC ACG TTC TGT TAG AAA GAT CCA ATT TTT TAT AGA ATA TTT GGA CTT AAC AGT TAA TAA TAA CAT

      140     150     160     170     180     190
ATT GTA TCC CAG ATG TAT GGA AGT TAA TGG ATA GTC AGT AAC ATA CAG GAC TAG CAG AAG GTT TGT
TGA TGA AGG GTC TAC ATA CCT TCA ATT ACC TAT CAG TCA TTG TAT GTC CTG ATC GTC TTC CAA ACA

200      210      220      230      240      250      260
TGT TAT AGG TAA TCT GGA GAG AAG CCA GGT AAG TGG AAT TTG GGA TTT GCT GGT GTT GCC AGA AAG
ACA ATA TCC ATT AGA CCT CTC TTC GGT CCA TTC ACC TTA AAC CCT AAA CGA CGA CAA CGG TCT TTC

      270     280     290     300     310     320     330
CAG CAC AGA GAC ATG GTA AGT GGC AAG ACC CAG GTA ACT AAA ACA ACC ATG TCT TAG TCC TTT TAT
GTC GTG TCT CTG TAC CAT TCA CCG TTC TGG GTC CAT TGA TTT TGT TGG TAC AGA ATC AGG AAA ATA

      340     350     360     370     380     390
GCT GCT GTA ACA GAA TAT CAC AGA CTG AGT AAT TTA TAA TGA ACA GAA CTT TAT TTG TCT TCT GGT
CGA CGA CAT TGT CTT ATA GTG TCT GAC TCA TTA AAT ATT ACT TGT CTT GAA ATA AAC AGA AGA CCA

      400     410     420     430     440     450     460
TCT GGA GAC TGG GAA ATC TAA GAG CGT GGC ATT GAC ATA TGG TGA GGG CAT TGG TGC CTC ATC ATC
AGA CCT CTG ACC CTT TAG ATT CTC GCA CCG TAA CTG TAT ACC ACT CCC GTA AAC ACG GAG TAG TAG

      470     480     490     500     510     520
CCA TGA CAG AAG ATG GAA ATG CAA GAG AGC TCA AAA GCA AGA GAG CAA ATG GGG CCA AAC TTG CTT
GGT ACT GTC TTC TAC CTT TAC GTT CTC TCG AGT TTT CGT TCT CTC GTT TAC CCC GGT TTG AAC GAA

530      540      550      560      570      580      590
TTT ATA ACA AGC CAC TCT TGT GAT AAT GAA CCA ACT CAA ACA ATA AAG ACA TAA ATC CAT TCA TGA
AAA TAT TGT TCG GTG AGA ACA CTA TTA CTT GGT TGA GTT TGT TAT TTC TGT ATT TAG GTA AGT ACT

      600     610     620     630     640     650
GGG CAG AGC CCT CAA GGA TGA ATC ACT TCA CTT CTT A ATG GCC TCA GCT TCT AAT ACC ATC ACA
CCC GTC TCG GGA GTT CCT ACT TAG TGA AGT GAA GAA T TAC CGG AGT CGA AGA TTA TGG TAG TGT
                                     M A S A S N T I T

      660     670     680     690     700     710     720
ATA GTA ATT CAG TTT CAA CAT GGG TTT TAT AGG GAC GTT GGA ACC ACA GCA AAC TGT AAC CAT TTT
TAT CAT TAA GTC AAA GTT GGA CCC AAA ATA TCC CTG CAA CCT TGG TGT CGT TTG ACA TTG GTA AAA
I V I Q F Q H G F Y R D V G T T A : C N H F>

      730     740     750     760     770     780     790
GAT TTC CTT ATT TGC ACC ATT TTA AAA AAA CCT ATT TAT TTA ACG ACT GTT TAT TCA GTG CCT ATT
CTA AAG GAA TAA ACG TGG TAA AAT TTT TTT GGA TAA ATA AAT TGC TGA CAA ATA AGT CAC GGA TAA
D F L I C T I L K K P I Y L T T V Y S V P I>

      800     810     820     830     840     850
CTG TTG TGT TGG GGA CTA GAG GTA ATT ACA AAG GGA ATA AGA CAA ACA GTC ACC CAC TCT GGT GAT
GAC AAC ACA ACC CCT GAT CTC CAT TAA TGT TTC CCG TAT TCT GTT TGT CAG TGG GTG AGA CCA CTA
L L C W G L E V I T K S I R Q T V T H S G D>

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FIG. 2A

4/5

860	870	880	890	900	910	920
GCT TCC CTT ATC TTC ATA ATG CAT TTG ATC CTG TG ATT CTT TGG CAC ATG AGT CCA TTG CAT CTT						
CGA AGG GAA TAG AAG TAT TAC GTA AAC TAG GAC AC TAA GAA ACC GTG TAC TCA GGT AAC GTA GAA						
A S L I F I M H L I L>						
930	940	950	960	970	980	
GCA TAT TAG TGT CCA GTA AGT TTT TCC TGA CCA ATT GAT AAT ATA GAT ATA CAT TGG TAG CAG TTT						
CGT ATA ATC ACA GGT CAT TCA AAA AGG ACT GGT TAA CTA TTA TAT CTA TAT GTA ACC ATC GTC AAA						
990	1000	1010	1020	1030	1040	1050
TGT GTA TAT TTT TAT AGT TAG ATG TTG TTG GCA CAT GTG ACT TGT GTC TCA GAA AAA TAC AGA AAA						
ACA CAT ATA AAA ATA TCA ATC TAC AAC AAC CGT GTA CAC TGA ACA CAG AGT CTT TTT ATG TCT TTT						
1060	1070	1080	1090	1100	1110	
TGG TTA AAG ACA GGA GGA TAC TAC CCT GAT TTC TCT GTT CAT TAA AGA ACA GCT ATT TGG GGG GAA						
ACC AAT TTC TGT CCT CCT ATG ATG GGA CTA AAG AGA CAA GTA ATT TCT TGT CGA TAA ACC CCC CTT						
1120	1130	1140	1150	1160	1170	1180
AAC CTG ATA CAA TTA TTT GAG CAT GTG GCT TAA AGA TTA GAC CTA TAA ACA ATT CAG GAG CAT						
TTG GAC TAT GTT AAT AAA CTC GTA CAC CGA ATT TCT AAT CTG GAT ATT TGT TAA GTC CTC GTA						
1190	1200	1210	1220	1230	1240	
CTT CCA GCA AAC TGT GTG AGA ATT CAC AGA AAT AAA CCT GGT AGG TTT GTG CTA TGT TAT TCA CAT						
GAA GGT CGT TTG ACA CAC TCT TAA GTG TCT TTA TTT GGA CCA TCC AAA CAC GAT ACA ATA AGT GTA						
1250	1260	1270	1280	1290	1300	1310
GGG CTG TTA ACT CTT TTC CAT TCC TAG GTC CTT TAT TTC CCT GCC CTC CTC AAT CTC ATG CTC TTG						
CCC GAC AAT TGA GAA AAG GTA AGG ATC CAG GAA ATA AAG GGA CGG GAG GAG TTA GAG TAC GAG AAC						
1320	1330	1340	1350	1360	1370	
AGA TTT TTA ACT ATA TTA CTT CTT TAC AAA GTC ATC TTC AAA ATG ATT CAT TTT GGA TAG CAA						
TCT AAA AAT TGA TAT AAT GAA GAA ATG TTT CAG TAG AAG TTT TAC TAA GTA AAA CCT ATC GTT						

FIG. 2B

5/5

SL5 IMMUNOHISTOCHEMISTRY COMPARISON OF TUMOR vs. NORMAL

	1	2	3	4	5	6	7	8	9	10
A	Adrenal	Adrenal	Adrenal	Ovary	Ovary	Ovary	Ovary	Breast	Breast	Breast
Tumor	(+4)	(+4)	(+2)	(+4)	(+4)	(+4)	(+4)	na	(+4)	(+1)
NC	(-)	(-)	(-)	wp	(-)	(-)	(-)	na	(-)	(-)
Normal	(+2)	(+2)	(+2)	(+1)	(+1)	na		(+1)	na	na
NC	(-)	(-)	(-)	(-)	(-)	na		(-)	na	na
B	Colon	Colon	Colon	Colon	Prostate	Prostate	Prostate	Prostate	Uterus	Cervical
Tumor	(+4)	(+4)	(+4)	(+4)	(+2)	(+3)	(+3)	(+3)	(+4)	(+2)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Normal	(+2)	(+1)	(+2)	(+3)	?	(+2)	(+1)	(+2)	(+2)	(+2)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
C	Kidney	Kidney	Kidney	Kidney	Pancreas	Pancreas	Pancreas	Pancreas	Leiomyo-	Leiomyo-
Tumor	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	EDG	EDG
Normal	?	?			(+1)	(+1)	(+2)	(+1)		
NC	(-)	(-)			(-)	(-)	(-)	(-)		
D	Liver	Liver	Liver	Stomach	Stomach	Stomach	Lymphoma	Lymphoma	Lymphoma	Lymphoma
Tumor	(+4)	(+4)	(+4)	(-)	na	na	(+4)	(+2)	(+2)	(+1)
NC	(-)	(-)	(-)	(-)	na	na	(-)	(-)	(-)	(-)
Normal	na	na	na	na	na	na	(+1)	(+1)	?	(-)
NC	na	na	na	na	(-)	(-)	(-)	na	(-)	(-)
E	Seminoma	Seminoma	Seminoma	Thyroid	Thyroid	Thyroid	Thyroid	Fibro-	Fibro-	Fibro-
Tumor	(+3)	(+4)	(+4)	(+4)	na	na		(+4)	(+4)	(+4)
NC	(-)	(-)	(-)	EDG	wp	EDG	EDG	(-)	(-)	(-)
Normal	(+2)	(+1)	(+2)	(+1)	(+1)	(+2)	(-)	(-)	purk(+)	(+2)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	na
F	Melanoma	Melanoma	Melanoma	Chorio-	Carcinoid	Chorio-	Basal Cell	Basal Cell	Basal Cell	Germ Cell
Tumor	(+4)	(+4)	(+4)	(+4)	(+4)?	(+1)	(+3)	(+3)	(+1)	(+4)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	EDG
Normal							(+1)	(+1)		(+1)
NC							(-)	(-)		(-)

Staining Intensity: -, no staining; + weak; ++ medium; +++ strong staining
 Staining Percentage: 1: 0-25%; 2: 26-50%; 3: 51-75%; 4: 76-100%
 For example: (++3) stands for 51-75% of cells have medium staining
 NC: Negative Control; na: no tissue materials on slides

FIG. 3

SEQUENCE LISTING

<110> Zhang, Jimmy
Astel, Jon H.
Carroll III, Eddie
Endege, Wilson O.
Ford, Donna M.
Monahan, John E.
Schlegel, Robert
Steinmann, Kathleen E.

<120> GENES AND GENE EXPRESSION PRODUCTS THAT
ARE DIFFERENTIALLY REGULATED IN PROSTATE CANCER

<130> 200130.463

<140> US

<141> 1999-06-11

<160> 339

<170> FastSEQ for Windows Version 3.0

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<212> DNA

<213> Homo Sapien

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ttaagagacc atcctggcca acatgatgaa accctgtctc tactaaaaat acaaaaagta	180
gctgggcgtg gtggcatact cttacaatcc cagctacttg ggaggctgag gcaggagaat	240
cacttgaacc taggaagcag aggttgagcagg gggccaagat cacaccacta tactctagcc	300
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tctactttcc ttctaagtga gaaaaagggt acaaaaattc aagtgtcaat gtccccttcc	540
tgggaagagg tttagaaaaa caacagctca ccttctgaac tctaccagtt ccttttgaag	600
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aaactggaca ttctttacag atatacaatc ttgctaatac tgggagaacc nttccaagga	720
tgtataaaga ggagacgnca ccttagtaat gccagggata gagaaaaccc nggatataat	780
atggggtttt taatgccgga acatggngga aactaggang agccgagatg ganctggtcc	840
ctgaagtga ctggttnagn tattctgggn accctcagga gggccttgca agtgtgtggg	900
taggnaaaaa actgggctgg gcaaaactact tggntncaag tttttttatg ggagaccgaa	960
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accc	1024

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ntangcgatc agctattgna cggaaatctct gtganantga nnagctnana tcntctccan 180
ggaanaacag ntccncaang ctntattnga gacagagcta tgacannnnc ntntntactc 240
ngacagtcct taggaaccnc gcaantgana nngnggngat gcnactagga nctgncncnn 300
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cgtntctnat ngacactcgg ggncacgat gcanancgt ancnnccnn ggngtgncan 480
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naaaaacctt tgcaggtttg ggggttggac cccgggncct ttttcccggt gtnnggttta 960
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cngg 1024

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cctttttagt ccttttctct tagtctctctc ttcccggtgg ttggtaaaaa gaggtgaatt 180
gacagcctat gttgaagaca ctgtgctttt ctcaagaagg acatccaaac agcaagtcta 240
cttctttctc tttaacgatg tgctcattat caccaagaag aagagtgaag aaagttacaa 300
cgtcaatgat tattccttaa gagatcagct attggtggaa tcttgtgaca atgaagagct 360
taattcttct ccagggaaga acagctccac aatgctctat tcaagacaga gctctgccag 420
tcacctcttt actctgacag tccttagtaa ccacgcgaat gagaaagtgg agatgctact 480
aggagctgag acgcagagcg agcgagcccg ctggataact gccctgggac acagcagcgg 540
gaagccgct gcagaccgaa cctcactgac ccagggtgaa atcgtaggt catttactgc 600
taagcagcca gatgaactct cctgcaggt ggctgacgtc gtccctcatct atcaacgtgt 660
cagcgatggc tggatgagg gggaaacgact acgagatgga gaaagaagct ggtttcctat 720
ggaatgtgcc aaggagataa catgtcaagg ctacaattgn ttaagaatgt ggagagaatg 780
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agaattgcac cgacacttac cgggcttggg ggttctgggg ctagttaa atggnaatttgg 900
cccagntttt ttaattaaag gaccggaaac cntggccttt aactttggcc agtggtncgg 960
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cccn 1024

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ctcccaagta	gctgcgacta	cagggtgcacg	ccattgcagc	tggctaattt	ttgtattttc	180
agtagagatg	gggtttcccc	atgttggcca	ggctggtctt	gaactcctaa	gctcaagcaa	240
ttcacctgcc	tcagcctccc	agagtgtctg	gattactcct	aagctcaagc	aattcacctg	300
cctcagcctc	ccagagtgtg	gggattactc	ctaagctcaa	gcaattcatc	tgccctcagcc	360
tcccagagtg	ctgggattac	tcctaaactc	aagcaattca	cctgcctcag	cctcccagag	420
tgctgggatt	actcctaagc	tcaagcaatt	cacctgcctc	agcctcccag	agtgtctggga	480
ttactcctaa	gctcaagcaa	ttcacctgcc	tcagcctccc	agagtgtctg	gattactcct	540
aagctcaagc	aattcacctg	cctcagcctc	ccagagtgtg	gggattacag	gtgtgaagca	600
ctaccaccag	cccattcttc	ccttttaacc	aaggaagaaa	ttacacaatg	aaacaaatac	660
cccgaatctt	aatatcactt	ttcctttgnc	ataattaaca	attagcgaca	cagaatcgag	720
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gctt						1024

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ggnttgengt	gnagtctgtg	cctgngggcan	cgctcatgc	atgactttgg	gtcattgctg	180
ctctccttgc	ctttaggggg	gggtccttgt	gctctgtgag	cagattngac	cctaggggtg	240
aagtcactctn	gcccctgttc	tgagccgaga	gctggncagg	gnccgtctca	catcatctct	300
ctgcccctgt	ngnccgatgg	gaaatcctaa	acaggctctg	tggnaaangc	tgnnccaagg	360
cgctcctctg	gcagncganc	catcagnnga	tcgnnagccn	ngaancgatg	gcccgggaaa	420
accaaaccag	gaannaanca	caccgtgcga	aagggnattg	tgaacgaact	gaaaaattgt	480
aaagctctta	aggactttca	tgcttgcnag	nattnantga	canaaaatca	ctganncann	540
gaacataaag	aaatagccat	ggangattca	cagtgtantc	ngctgancng	ctcatntggc	600
cncaaggnat	gttttactna	cgagnncnca	atganctggt	ccttgntnng	gctggctttc	660
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nnccaaggaa	cccggttttn	gggcentgga	agggncctctg	gncnnggttt	cgagggnnttg	960
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aaag						1024

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 aagctgctaa ctccctggcc attgcccggac tctttcacc ccatggactt tccgctggca 300
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 ggcggnggga gagatgccca tgaactcaag tacctgcccg ggcngggccg tcgaaaagggg 660
 gaattccagc aaactggcgg ccgttactan tggattcngc ctccggtaca ngcttggggg 720
 aatcatggtc aatanctggg ttctgtgggt naaattgggt ntccggctca nnaatttcaa 780
 nannanatan naagcncggg aancataaan ttgttaaagc ccnggggttc cctnaatnan 840
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 cctcagcctc ccagtagtgg gggactacag gcgtgtgcca ccacaccgg ctaatttttg 180
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 acatcatgac aattctggaa tgtctgaagt ttgagataga agattgtcta agaaaagctg 600
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 tgacctacct taatgaaaat ttcagaaaaa ccatctggaa tcagccccat catgtccaga 780
 attggaangg aatctgggga tcaatggaac ataccgggaa atactttnt tcccccaaa 840
 ccaaggnaat ggaatgtcaa aagtattgga gcctaattta aaatggggnt tccntantaa 900
 agntttgctt tcanttaatg ggancanttg gcnanntggt ttgggnacc cctgcataat 960
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ngcngnnggn ntncntnttg agagntnngn ngctnactg ctatgntctc ntggatnnnc 180
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aagcttttct tcnccaccct tctatcttga acttncanac gtttccggaa acnccaanga 900
nngttaccac ttgccngacc taaaaaacnc tgttcacgaa nttnaacttn ggatttngga 960
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nnga 1024

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cagcctccca agtagctggg attgtaagag tatgccacca cgcccagcta ctttttgtat 180
ttttagtaga gacagggttt catcatgttg gccaggatgg tctcttaact cctgccctca 240
agtgateccac cagagaggag atcctcggcc tccccagggt ctgggattat aggcattgagc 300
caccgtgccc agcctacttt ctaattaacc aaaaaaaaaa aaaaaaaaaa aaaaaagcg 360
gccgtgaat tctattctag aattaagcgg ccgctgaatt ctagacctgc ccggggcgcc 420
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cttaatcgcc ttgcagcaca tcccccttcc gccagctggc gtaatagcga agaggccccga 660
ccgatcgccc ttccaacagt tgcgcagcct gaattggcga tggacgcgcc ctgtagcggc 720
gcattaancc gccggcggt gtggtggtta cncgcancg tgaaccgnta cacttggcan 780
ggnccatcgg cccgnttct ttcgcttct ttccttctct ttnttggna cgtttcgcc 840
gggttttccc cggtnaagct nttaaattng ggggcttccc nttnangggg tcccgaaant 900
anngccttta acgggacctt gganccecaa aaaactttgg tttangggg anggggtcac 960
cgtaannggg nccatttgc ctggnataaac nggttttttc ccccnttgac nttgggnanc 1020
cccg 1024

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<210> 10
<211> 1024
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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<400> 10
gccgtcnaga nccatgcnnn agegngcgcc nggtgtnatgg nnanntgcag aanaacncc 60
ncnatcctaa tacgactcac tatagggctn gagcgngcga ccggacagng nttnnggtgg 120
ctnatgccta naatcccagn acttggggag gccnaggatc tctntntgg tggatcactt 180
gagggcagga gttaanagac catcctggcc aacatgatga aacctgtct ctactaaaaa 240

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tacanaangt	agctgggctg	ggtggcatac	tcttacaanc	ccagctactt	gggaggtga	300
ggcaggagaa	tcacttgaac	ctaggaagca	gaggttgag	tgggccaaga	tcacaccact	360
atactctaaa	gggcgaattc	cagcacactg	gcgnccgtta	ctagaggatc	cgngctcggg	420
nccaagcttg	gcgtaatcat	ggacanagct	gttnccctgtg	tgaaatgggt	aancgctnac	480
aanntnacac	aacatacnag	ccggaagcat	aaagngtnaa	gcctggggng	cctaagtgtg	540
gagctaactc	acattaattg	cgttgcgctc	actgcccgtc	ttncagntcg	ggaaacctgc	600
cgtgccagct	gcattaatga	atcggccacg	cncnggggag	aggcggantg	cgaatgggag	660
cttcttncgn	ttctcgctta	ctgactngat	gcggttcggc	ccattgnntg	cagcaaagcg	720
gnatcngctc	acttnaaagg	cnggnaatnc	cggttntccc	cntgaatccg	ggggattacc	780
gcaggtnaag	aacctggggg	anccaaaagg	ccagctaaaa	gggcccgga	acccggaaaa	840
aaggcccngt	tggttgccgt	tttttcanaa	ggttccgccc	ccttgaccgn	ngcnttacaa	900
aaattnggag	gcnttaaggt	cnnaantggg	ggaaaccccc	cgggaaattt	caggntnccc	960
nggggtttcc	cctgggaagt	tncttngggg	gctttccnnt	tcnaaacctg	gcgnttaccg	1020
gnaa						1024

<210> 11
 <211> 1024
 <212> DNA
 <213> Homo Sapien

 <220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 11						
gtncgtctag	atgcatgctc	gagcggccgc	cagtgtgatg	gatatctgca	gaattcgccc	60
ttgagcggcc	gcccgggcag	gtacgcgggg	gggcatttcc	ctgacgactc	gtgtgtgccc	120
tgggggagcg	gtagatggcc	cagccccaag	tggtccgacg	ttcctgcccc	aacatattct	180
gtgacggaaa	gcctatgttg	acctcgctcg	gcactcaaag	cgtgggcagc	ggcctaactg	240
ctgctgcggg	aacacagtcg	cgttgaatgc	tattctcaag	acagacaaaa	cagtgggaag	300
acactacgcc	aagctgctaa	ctccctggcc	attgcgggac	tctttcaccg	ccatggactt	360
tcgctgggca	ttttaaacaa	catagtctct	ttctctgtgc	tctttctctt	tctctctctc	420
tttctctttc	tctctctctc	tctctctctc	tctctctctg	tcaatctcat	aatttctctc	480
tctctgtcca	cgttcccacc	caacgctctc	tcgcccactt	ctactggggc	ccacttctct	540
tctctgtctc	tctgtctcaa	cgtgattgac	tttcttgtgc	tgcccaggac	ttcttgccca	600
cgtgcgcctt	caaaacggta	agagctgcaa	ctgaacgtgt	ganacatggg	gcagataggc	660
tgagaggcng	cgggaaaaat	gccccatgaa	ctcaaagtac	tcnngccggc	ganacagcta	720
angggngant	ttcaagcaca	nntggcgggc	cgttactaan	tggtatcgaa	cctccgggtac	780
caaaaagcttg	ggcggttaatc	atgncaanaa	gcggttttcc	ngtnttaaat	ttgttnance	840
gctcananat	tccanacaa	cnattacnaa	gcccgggaaa	ccaanaaagt	tgtaaaaacc	900
ctggggggtg	ccnaaatgan	ttgangctaa	ntccnnttta	atttncnttg	cncnaangg	960
ccggtttttc	cattcgggaa	acctgtncgt	nccaanctgn	atttantgaa	tcgggcaaac	1020
tccc						1024

<210> 12
 <211> 957
 <212> DNA
 <213> Homo Sapien

 <220>
 <221> misc_feature
 <222> (1)...(957)
 <223> n = A,T,C or G

<400> 12						
actttttttt	tttttttttt	tttttttttt	tttttagctt	tattttttatt	gttgacacta	60
ttacagatag	aatgaccaca	accatattaa	caaacaaaaa	acctgtgcac	agaaacaaga	120
tgaagaaaaa	atatcaagat	gttaaccaca	ctctttggat	ggtgaaaaca	tgggtgagtt	180
tctctttctac	atttctgtaa	cttcaaagtt	tctataatga	acacatttca	tatataatgg	240
aaatatatgt	agtaaagggtg	gactaccaaa	acactagaat	gatgaccttt	caaggaaacc	300
gaaacaaaaa	aaccataatc	ccacaacaac	cacacaacta	tttcttgttt	ttcatctttc	360

ttcccatctt	tgacatttat	gcatacttat	cactaacacc	ctaataatca	cagactagt	420
cacagatcaa	gatgttaaca	gttaattgtt	gttgggtgtt	gggaatatgt	gtgaattttc	480
tttactgaat	ttccaaaagt	ttgtatgagt	atgtantata	tttghtaatg	aaaatacata	540
cataagaatt	tantacaaa	nacaccaaag	attattttaag	gaatttgaga	caaaaatatt	600
tanccaaatt	cccacaatga	caacaccaan	tttaggtant	ttccacatct	ntttcaaatt	660
taanggcttt	angcacacat	attttaacac	tggtanccac	aagcngtgtt	gcnccggaan	720
caannngntng	agggaaacca	ggtncaaagga	tggtanncan	taagttgtta	anggggttgg	780
gaanannngn	aattttttta	aacanattta	cnttaanttt	ccaagttttt	ccnccgggga	840
anntttttng	gccaccaatg	ggggnncccc	nttatancn	ngtnancccg	ggacattttt	900
tnnnnggggaa	atttnganaa	atttagagt	ngaaangntt	tttacccean	agtnccn	957

<210> 13
 <211> 1020
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1020)
 <223> n = A,T,C or G

<400> 13	
gtgngtctag	atgcatgctc
ttcgagcggc	cgcccgggca
aagggacgct	tatggagaac
aaagagagcg	ggtgttggtc
ccgcccattc	gaccatactg
gtcaatctgt	gtcctctgag
gtctttcctg	agacattccc
accatatctt	ctatgggtcag
atcaaaaattc	ctgagctctg
agccttcttg	tcagactctc
ctatgtagct	ttgtaaagtc
atactgttcc	atctgecttg
ctcttaaggg	cccagactta
gcagnaataa	nntccgcgct
tggnnngact	tccctgaaat
cgggggggct	gcaattgcac
atttgacncc	cttaanggcn
gagcggccgc	cagtgtgatg
ggtacccagg	attcaaaagt
ctcttaaaga	tattgtgagc
caactctggc	ttttgtgcca
gacctgtttt	aaggtttttc
gtccaaaatgt	cccaggattt
cccaaggaat	ccttcaaacg
ccttattgctt	atgggacaaa
cttgacctgc	tgactttgcc
ccgcctagac	tatgagcctg
actcttttat	aactttacat
ccttgtctgt	ccagcaaatt
gtcttccctt	gatttcccan
gtttgtgctt	tcaaaaactga
atgggtgaat	ccnnttcccc
tgnaantccc	aatggnttaa
naaaaggggt	tttttttttt
	1020

<210> 14
 <211> 1013
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1013)
 <223> n = A,T,C or G

<400> 14	
gtgtcgatgc	atgctcgagc
gagcggccgc	ccgggcaggt
ngtctccctt	ctacnagctc
tctcctttgc	tctcngctca
ataggcaata	aacacagttc
ttttcctttt	tctnancctt
gactgggctc	cccagggcct
ctagacagct	cantaagcct
caatacctct	tacctcctct
acagcagaac	caccagaagg
tttaaatagg	atttgggatt
gtgatggata	tctgcagaat
taattgtttt	gttgtttcat
acagaatgaa	aatggaagga
ancctaggtt	acccattttg
tggacagttt	cttgttgtgt
aggtctactc	agtcccttgc
cttttccatg	tcccacccat
tctgcgctgt	gttcttctc
attctcaagg	attgtcagac
gcagtagtga	ccttctcaag
tattttttaa	ggaaagaaat
	660

agtttaaaaa	tgcatgtctt	ttagccaatt	cagaatcctg	ccccaaaact	tttttaaaaa	720
gtcaagacag	ataaagcttt	ggggganacg	gaaaaaaann	gnnnaaaaaa	anaaagtact	780
tcgggcggn	acnacgctaa	gggnnaattc	agcananggg	gggcccgttac	aagnggggttc	840
nanncccgg	acnaancctt	gggggtttaa	caagggcnaa	ancngggtnc	cggggntnaa	900
aattgttacc	cgcnaaaaat	tccanaaaaa	natncgaacc	cggaancca	taaaanttn	960
aancccnngn	ggcnaaggg	agngnnnaac	cccnaataaa	tgnttggn	cnt	1013

<210> 15
 <211> 951
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (951)
 <223> n = A,T,C or G

<400> 15						
accctagggc	aaatactgag	cagggtaaaa	ttcccagaat	accactaga	agcgtggaat	60
atatcaatat	cctaggaaga	agattcagca	caccaaattt	cccattactg	ataacagctc	120
tgaaggcata	ataagaaagt	gagtgatcag	aagagcagag	aaatgacttg	ttccagtcac	180
tgccatcttg	tttacccttt	cagtgggtcc	cttacccttt	tcccactgg	gcatacagct	240
catctctctc	tgagtccctt	tctgctttcc	tcctttgctc	taaacgttcg	agtttcaaat	300
tcctcttacg	accagactta	tctcgaata	cggtttcagc	atattgaaat	tcagctgcaa	360
aggaaaatta	tactcaata	tcaggatcaa	aatcagaaat	aacattctaa	gagatcaaat	420
caaccgcttg	ggattcta	gctagataag	aacttctgca	gccagaccaa	agtagttcct	480
accaacatct	tggtgcatat	tggcactggg	ccaagaaat	ggcattttcc	tttttttttt	540
ttttgagatg	gagttctact	ctgttgccca	gggtggagtg	cantgggccc	gattttggct	600
cactgcaacc	tcacctccc	aaggttcaag	cgattctcct	gtctcaagcc	tcctgagtna	660
gctgggggat	acagggcata	cnacancatg	cctggctagt	tttttttttg	gaattttggn	720
tagagcacagg	ggtttcatca	nggttngccc	aggcctggtn	cttggaactn	anagaccctc	780
aggntggatt	caacccaact	tccgggtac	caaaaggtn	ncnggggatt	acangcattt	840
anncaacn	gcccngggc	naaaatggna	anttttcang	aagggaagc	agcnntgggg	900
atcccnngnn	naantttcac	caaggcctta	aaccagggn	gtaaatttgt	t	951

<210> 16
 <211> 1008
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (1008)
 <223> n = A,T,C or G

<400> 16						
gtgcgatgca	tgctcgagcg	gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	60
agcggccgcc	cgggcaggta	cattacttgg	tgtaaacatt	gttggcagtg	gtagcccttt	120
ttcagaaaagc	aacttgctgt	aagtcagggt	gtccgttcca	accttcagct	agtgaaggg	180
tagtaacaaa	tggtaaacaa	gagaatgatt	gtttaaacct	atctgtggac	acttaatgca	240
actgtttaaa	aatgataatc	acgagttatg	tagcaacgtg	gaaatatatt	tacagaacat	300
taagtggaga	aagcaggaca	cgaaagtata	tttatactac	agttataact	caacagttca	360
tttatatgct	gttcatttaa	cagttcattt	aaacagttca	ttataactgt	ttaaaaatat	420
atatgcttat	agtcaaaagc	tggttggttg	ttgttggttg	aggcttatag	ttgagcatta	480
ttttctttaa	tttcttgaat	gttctttatg	gtagtgttac	taaaaagttt	atgatcacat	540
tttcattgtg	aacataat	gaactcatta	tcacacactt	ggaaaataca	gaaaagtggg	600
ggaaaaaaa	tcatacccc	ancatccaaa	gacatatact	ctcctcttat	cctgttcaat	660
cctgtttcc	ggtgcacaag	gtttatgatt	ataactgtgt	caaaatgtat	aatcaaaata	720
gctgttacat	taccttggtg	gnantaagg	taaatacctt	caccttaaat	ttttcaaaan	780
gttcccaana	ataaagggtc	ggataacagt	ggtataagtg	tgtcccaatt	gggggtgcan	840
aatacattcc	cangngggaa	aatttnnaa	tnaagttaaa	ttatttttaa	aaatttccaa	900
aattcccaan	anctaanaac	taangggnaa	aaacctngat	cgggntnccc	caaacnngtt	960

taantggnac nccttgggaa aanaagnttt aaaaanggtg gcaaaaaag

1008

<210> 17
 <211> 1024
 <212> DNA
 <213> Homo Sapien
 <220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 17
 gtgntcttag atgcatgctc gagcgggcgc cagtgtgatg gatatctgca gaattcgccc 60
 tttnnanagg ncgcnegggc angnantctt cccnctntg ccatnannca cggnnanaaa 120
 cngcagtggc actaantntg agacaatctt ncaaaccagc ttcattgtgc tncacttntc 180
 nnnngtncaa angagggcca ggangggaaa catcacantc gcgctaagnc cngntccggg 240
 nngtcagcat nngntctggt ncaanncccn cgntcgggcc cctcactcta ctctgcctcc 300
 natgactttg cncctcagac ntentggaac naaggnttcc nggggggcac accgcgtccg 360
 gccgnnnntg tctcggggcc acttggcggtg tgtgataaat caatcaagct gttanantcg 420
 nacgagtcctc nggtngcctg cananntaag cctcatcatc agagcctttc ctcaaaactg 480
 gantcccana tgtcatcagg ttntggttnt tttcagccan naggaagccc tngcattga 540
 atccnagaac ttgggcatgg ttnaagatct acaagntnga atacgtgcc cgcnaaaanc 600
 nttcaaccct aacaggaagg tnggattcaa ggaaggtgta anggnncatt annccacncg 660
 ggggnaccaaa gggagntana antanncatn nntttgggtt cgcgccnccga agggnttaa 720
 cccccggaat tnnnttttng ntnaaggggg gnnnnnggna aatccngtt cnnatttgg 780
 gaaagggann ccttnccttn cmtnggcct ntaaaagnnt tancaanacc cgnnatntg 840
 ttnangggccc cgnttttcaa nggggttaan nnttngggg aacccccnnc cccaaagng 900
 gnnnaanggg ggnaattccc aanaaaacng gggggnncc tnnnnnang gnttcngnn 960
 ccccnaaaagg nnnctgggg gggnannann gnncaaaaaa gggttcccn nnnnaaatt 1020
 tttc 1024

<210> 18
 <211> 981
 <212> DNA
 <213> Homo Sapien
 <220>
 <221> misc_feature
 <222> (1)...(981)
 <223> n = A,T,C or G

<400> 18
 acgcgggaca gagagaaggt taagagcaac aagatgggag gcagctgcat ggaacctgtc 60
 ccactgagga agtaaaacag agttttactc ttgttgccca ggctggagcg caatgggtgcg 120
 atctcggtc accgcaatct ctgcctcctg agttcaagcg aggagcaacc ctacctgatg 180
 gactggactt ctgcctggat tggagtttga tcatgcctcc atatgggtgt ttaccaggcg 240
 tatgcattga acctgagttt gtctcttcaa tacaagggaa atctctgccc cttagtgatt 300
 ttccaagaaa catgagcttc tgcctttcaa tgaggaagat actcagaagt catgttcgag 360
 cactccggaa aatgtccttg gagtttcaac atttcttttg tcttccacat ttcattttgt 420
 cctgattaaa gaggaagcca agttgctgtt tgtgtggcca tgtgagcagg canggagatg 480
 gtggctgcct agaagccaag agaagtggcc tcaagatgaa atctaccttg ctggtagtgc 540
 ccggggcggc cgcccgggca aggtacnttt tttttttttt gttttttttt ggcaaaaagg 600
 ctgtaaaagct tttttgggga gaaaatttaa tgggncaaan tttccaacac aggnagcanc 660
 cctgaaacca attttaagcg ggtccttccc ttttaaggct gttnaattgc cccttcaanc 720
 ttctcaagg ngtttttcac cctccnccg ggattttggn aaaggcccaa aantccntgg 780
 gnaanaagg gacaatctcc cggnttaaaa aaccaattnt ncggggngna accnggttcc 840
 ctgggctann cncctttaa ggntnccggg gcccttttgn gggggnaatt ttcaaacggn 900
 nctncaatt tctnagggg naancncct tngggtcann gggncnann cccaagnctt 960
 caaanccnaa ntcttttggg g 981

<210> 19

<211> 980
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(980)
<223> n = A,T,C or G

<400> 19
acttttttct tttttttttt tttttccgtc tccccaaagc tttatctgtc ttgacttttt 60
aaaaaagttt gggggcagat tctgaattgg ctaaaagaca tgcattttta aaactagcaa 120
ctcttatttc ttctctttaa aaatacatag cattaatcc caaatcctat ttaaagacct 180
gacagcttga gaaggctcact actgcattta taggaccttc tgggtggttct gctgttacgt 240
ttgaagtctg acaatccttg agaatctttg catgcagagg aggtaagagg tattggattt 300
tcacagagga agaacacagc gcagaatgaa gggccaggct tactgagctg tccagtggag 360
ggctcatggg tgggacatgg aaaagaaggc agcctaggcc ctggggagcc cagtccactg 420
agcaagcaag ggactgagtg aagccttttg caggaaaagg ctaagaaaaa ggaaaaccat 480
tctaaaacac aacaagaaac tgtccaaatg ctttgggaac tgtgtttaat gcctataatg 540
ggtcccaaaa atggggtaac ctagacttca gagagaatga gcanaganca nagggagaaa 600
tctggtctgc cttccaatth tcaatccgtn atcccagggtg aagctgggta ngagggggag 660
ancattngna naaaaatnga aacaacanaa nccagtttac taaatnaagg gaacctgccc 720
cngggcgggg cnccaanggg ccaaatttca ancaacanng ggcggggccc ttaccaantg 780
gnattccgaa gccncgggta accaangcct ngngttnaat ccagngggnc aaanccngtt 840
tnccngnggt gnaaattggt tancccgccc naanaattcc acancaacga atcngaagnc 900
cgggcnagca tnnangnnta aancccgngg ggggcncaaa agggaatggn nccanaccnn 960
attaaatncg gttgcccctg 980

<210> 20
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 20
cttggtaccg ngctcggatc cctagtaacg gccgccagtg tgcgtgaatt cgcccttcca 60
tcctaatacg actcactata gggctcgagc ggccgcgggg cagggtattca gcggccgctt 120
tttttttttt tttttttttt tttttttttt attgntgaca ctattacaga tagaatgacc 180
acaaccatat taacaaacca aaaacctgtg cacagaaaca agatgaagaa aatatatcaa 240
gatgttaacc acactntttg gatggtgaaa acatgggtga gtttctcttc tacatttctg 300
taacttcaaa gtttctataa tgaacacatt tcataataa tggaaatata ttagttaaag 360
gnggactacc aaaacactag aatgatgacc tttcaaggaa accgaaacaa aataaccata 420
atcccacaa acacacacaa ctatttcttg gttttcatct ttcttcccat ctttgacatt 480
tatgcatact tatcactaac accctaataa tcacagacta gtgcacagat caagatgtta 540
acagttaatt gttgttgggt gttgggaata tgtgtgaatt ttctttactg aatttccaaa 600
gttttgatg agtatgtatt atatttgtaa tggaaaatac atacataaaa tttattacca 660
aaacacccaa gattatttaa ggaatttgag acaaaatatt taaccaaatt cccacaatga 720
caacactatt ttaggtatth tccacatctt ttcatttaag actttatgcn cncatattta 780
acactggtat ccacaagcgt gtgccctgaa accaggatan nggggaaacn ngatcaagat 840
gttagccagt agtttggtag gnggttggga aatataggga atttttttaa aaaaatttac 900
tttatttncn aaattttccc cttgggnaag ggattatggc ncnccaangg gngcccccctt 960
aaanacnctg gttttcngga cttttttttt nggggaccat ttggaaaaaa ttaangggga 1020
aggt 1024

<210> 21
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 21
 nagnngcang cncgagcgcg cgccagtggt atggatatct gcngaattcg cccttcntan 60
 cngnngncac tnaatgcang ngcnaacca tgataacccg agttatgctn agcanaggaa 120
 ctatatgtac agaaacatta agtgnggaaa gccnnacn cn anggnanntg aatactacng 180
 tnataactna ncagaccatt nanatgctgc acatttaaca nnnctntncan acagnanatt 240
 ataannngnt ananntatat atgctnatng accaaagctg tngaggggtg gccgttgaag 300
 gcnnnnngnt nagcattanc atnttaacnnc acttgccctg cctntatggc agggttacta 360
 tctttgttac tgatcacgac atcantgcga acntaanacn aacncnntat nacacactng 420
 nnanagcccg aatcgngngng gaacagtatc ntntcncnc canccnnaga catntncnnn 480
 cctcttaten tgancattcn agnttctgtg cacaggnta tgatntanc ngtgncaaan 540
 tgnntcttna aantanttgc cacatnacct tngaggantt atggannaan actctcactt 600
 taaanccnnc aancgacccc nanaanactg tncgtntaac agtgcanaat gtgtgatttc 660
 atagtnttgc acacacatnc ccacnggaan cacaggcggtg tgactgaac attntagagg 720
 ntacctatct gccgacacct aacactacng gtnacggcaa gatcggaacc tntaannggg 780
 ttaacncaaa cnctagggat acccngggaa atatgtggcc caccgtttaa acccccgaag 840
 tgccngtac ccnggacatt gttttcgtg cggtanttggt gttaaanntg ggntnaaaac 900
 cctaattccc cctgggggtt tgccactaaa tttgaaggac cttttggccc tgccaaaatc 960
 annaaccctg gcncanaact ttggggganc nggnnaggna gggtnnccct tttttccga 1020
 aggc 1024

<210> 22
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 22
 gtgcgatgca tgcncgagcg gccgccagtg tgatggatat ctgcagaatt cgccctttcg 60
 agcggccgccc cgggcaggta cttttttttt tttttttttt ttttttttag attccacata 120
 tgagtaaaat catgtggtat ttgacttgcc ttttaaaaca cagtgaagaa tctgtcttac 180
 tttattcagg gtaggagaag ctacctgggc tcccataaa tgaggtgctc catcccatca 240
 tacagcccca tcatattcag tgcttccag atgacctcct caggggtgca gtagccctct 300
 atgaagatta tgcttaggat aagtatgaga atgccagtct tgggcatgct ctggacatca 360
 ctacgcatcc catcataggt gagggccagg gaggtgacaa ggacaaagga gtggccagtg 420
 ggatccactt cctttacatc aatgccaaag accagcagca tgactcgga ggcttacta 480
 aacaacaaag ggaagtgggt ttcataaatt tttatgacac tctccaagta tttctgcctt 540
 tgtatcggtc tccttcattt gataactgaa gagcagaaac tgcaccaaat cagtcacctt 600
 ttcactatc tcaactcttg gtaaagactc actgtctggc aaggacctgg taggggtgctt 660
 gggactcccc tccttttggc tgcnggagnc ctancagat tgatctaatt gaagggaac 720
 aacgaccnaa ggggaaggag cagggtctatc tngagcaacn ctggggaagg atttggggtc 780
 nccatcatca ngcagnaaac tccctcccg gggtnccctg ggnanttaaa gggatnccca 840
 ggaaggagga nggagggan agggaggang agggaaaaac naggnntnga aaaagggaacn 900
 cgnggggaaa ttggggnnta tacaccgcn ncnnnaannn gggngagnc ngngnccng 960
 tcngngnenn gnttcenntt gggngaagnn ggnntctcnn angggncggn nnnnnnnnnc 1020
 cnnt 1024

<210> 23
 <211> 948
 <212> DNA
 <213> Homo Sapien

<220>

<221> misc_feature
 <222> (1)...(948)
 <223> n = A,T,C or G

<400> 23
 acttttttct tttttttttt tttttccgtc tccccaaagc tttatctgtc ttgacttttt 60
 aaaaaagttt gggggcagat tctgaattgg ctaaaagaca tgcattttta aaactagcaa 120
 ctcttatttc tttcctttaa aaatacatag cattaaatcc caaatcctat ttaaagacct 180
 gacagcttga gaaggctact actgcattta taggaccttc tgggtggtct gctgttacgt 240
 ttgaagtctg acaatccttg agaatccttg catgcagagg aggttaagagg tattggattt 300
 tcacagagga agaacacagc gcagaatgaa gggccaggct tactgagctg tccagtggag 360
 ggctcatggg tgggacatgg aaaagaaggg agcctaggcc ctggggagcc cagtccactg 420
 agcaagcaag ggactgagtg agccttttgc aggaaaaggg taagaaaaag gaaaaccatt 480
 ctaaaacaca acaagaaact gtccaaatgc tttgggaact gtgtttattg cctataatgg 540
 gtcccaaaaa tgggtaacct agacttcaga gagaatgagc agagnagcaa aggagaaatc 600
 tgggctgtcc ttccattttc attccgttaa cctcaagggt anctggtaaa aggggagaca 660
 ttagaaaaaa aatgaancaa caaancaatt actaatgang tacctgcccg gggcgccgcg 720
 aaagggcgaa ntccaagcac acngggcggg ccgttacaan tnggatttcg aaccgggtac 780
 caaancttgg gngtaaanca ngggncaana accggnttcc cgggggtgaa aantgtttat 840
 ccgcccacaaa attccaaaaa ancaatanga aaccggaaan cataaagtnt taaaccctgg 900
 ggggggcccc aangantgag ccaaanccca attnaattgg gttggncc 948

<210> 24
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 24
 taccgcccct gcacccctag taacggccnc cagtgtgctg gaattcgccc ttcctatctg 60
 tggacactta atgcaactgt ttaaaaaatga taatcacgag ttatgtagca acgtggaaat 120
 atatttacag aacattaagt ggagaaagca ggacacgaaa gtatatttat actacagtta 180
 taactcaaca gttcatttat atgctgttca tttaacagtt catttaaaaca gttcattata 240
 actgtttaaa aatatatatg cttatagtca aaagctgttg tgggtgtgtt gttgtaggct 300
 tatagttagg cattattttc ttaaattttc tgaatgttcc ttatggtagt gttactaaaa 360
 agtttatgat cacattttca ttgtgaacat aatttgaaact cattatcaca cacttggaat 420
 atacagaaaa gtggaggaaa aaaaatcata tccccaccat ccaaagacat atactctcct 480
 cttatcttgt tcattcttgt ttctgtgcac aggtttatga ttataactgt gtcaaaatgt 540
 atattcaaaa tagctgttac attacctttg tggaaattatg gttaaatact ttcaacttaa 600
 ttttttcaaa tgttccctat aataatgtcc tgataacagt gtattatgtg tgtctccatt 660
 ggtgtgcata atacataccc agaggaaaaa ttgaaaaata aagtaaatat ttttaaaaaa 720
 ttacctatat tcccaacacc taacaactac tgnttaacca tcttgatctg nttcctctat 780
 cttggttcag tgcacacgct ttgngaataa cagtgggtta atatgtgtgc cataaaggcc 840
 ttaaatggaa aagatgtggg aaaaataact taanaataag ggtggccttt ggggggaaat 900
 ttggttaaaa aattttgggc tcnaaaattc cnttaanaaa acccttgggg ggtttgggna 960
 ataaaaatnt taanggangg aatnttcccn ttccantttt nattccttcc tcttcccaaa 1020
 actt 1024

<210> 25
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

```

<400> 25
gccgtcnaga cncatgcncn agcgnnecgnc nggtgtgatgg atatntgcng aattcgncct      60
tccatccctaa tacgactcac tatagggctn nagngngcca ctattncnga tngaangacc      120
acngccatat taacaaacca aaaacctgtg cacagaaaca agatgaagaa aatatatcaa      180
gatgttaacc acactctttg gatggtgaaa acatgggtga gtttctcttc tacatttctg      240
taacttcaaa gnttctataa tgaacacatt tcatatataa tggaantata tgtagnaaag      300
gnngactacc aaaacactag aatgatgacc tttcaaggaa accgaaacaa aataaccata      360
atcccacaac aaccacacaa ctatttcttg gttntcatnt ttcttcccat ctttgacatt      420
tatgcatact tatcactaac accctaataa tccagactag tgcacagatc aagatgttaa      480
cagttaattg cngntgggtg ttgggaatgn gcgtgaattt tctttactga atttccaaag      540
ttttgtatga gnntgtatna natttghtan ggaaaatata tacatnaaat ttattacca      600
aacaccaaag attattttaag gaatttgaga cnaaatattt aacccaaatt ccacaatgcc      660
aacactnttt taggnatntt ccacatcttt tcntttaaga ctttatgcnc ccataatgt      720
aacactggta tcacaaagcg tgtgcactga aaccgggat nnaggaacc gancaagatg      780
ttncnagnag ttggtangng gatnggaaaa taggnaattt ttaannaat tnacttttat      840
ttccnanatn tccctttggg gatgncttat gncccccat gggggncccc ctttanancc      900
ctggtaatca nggcentttt ttttggggaa cttttggaaa aaanttnaag gggaangttt      960
ttaccataa tttcccaaa ggnanggggn acnctttttt ggaanattcct ttnggcncct     1020
tttn

```

```

<210> 26
<211> 1024
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 26
gtgcgatgca tgcncgagcg gccgccagtg tgatggatat ctgcagaatt cgccctttcg      60
agcggccgccc cgggcaggta cttttttttt tttttttttt ttttttttag attccacata      120
tgagtaaaat catgtggtat ttgacttgcc ttttaaaaca cagtgaagaa tctgtcttac      180
tttatccagg gtaggagaag ctacctgggc tccccataaa tgagggtgctc catcccatca      240
tacagcccca tcatattcag tgcttcccag atgacctcct caggggtgca gtagccctct      300
atgaagatta tgcttaggat aagtatgaga atgccagtct tgggcattgct ctggacatca      360
ctcagcatcc catcataggt gagggccagg gaggtgacaa ggacaaaagga gtggccagtg      420
ggatccactt cctttacatc aatgccaaag accagcagca tgcactcgga ggcttacta      480
aacaacaaa ggaagtggtc ttcataattt tttatgacac tctccagtat ttctgccttt      540
gtgatcggtc ccttcatttg atacttgaag agcagaaact gcaccaaact agtcaccttt      600
tcactctatc cacttctggg gtaaagactc actgtctggc aggacctgta ggggtgcttg      660
gactctcttc cttttggctg ctggagccct caacaagatt gatctaattg gaagggaac      720
caaccnaccg aangggggang gagcaggctn ttctgaagca ctctggggga aggattttgg      780
ngtnncnat catncagcan gnaaacctcc cncgggggt gccttggnna ttananggtt      840
agcaaggang gaggacgnag gaananggan gnangnaggg aaaaagangg attggaaaan      900
agggancctn ggtgggaaat tggggttttt nagcaatccc ccnccaaaaa ncnaggggaa      960
ccctgttcaa ccncanggc cnggnttcca cttttggaat ttgaaanttt cctcaaggaa     1020
ngaa

```

```

<210> 27
<211> 935
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(935)
<223> n = A,T,C or G

```

```

<400> 27
acgcgggggtg ggggggggtcc tgggtctttgg cttctcgact cggctctgtt tcgacagcga      60

```



```

acatgtcgcg gcctgtcaga aataggaagg ttgttgatta ctcacagttt caggaatctg 120
atgatgcaga tgaagattat ggaagagatt cgggccctcc cactaagaaa attcgatcat 180
ctccccgaga agctaaaaat aagaggcgat ctggaagaa ttcacaggaa gatagtggag 240
actcagaaga caaagatgtg aagaccaaga aggatgatcc tcactcagca gaggatagtg 300
aagatgaaaa agaagatcat aaaaatgtgc gccacaacg gcaggcggca tctaaagcag 360
cttctaaca gagagagatg ctcatggaag atgtgggcag tgaggaagaa caagaaggag 420
aggatgaggc accattccag gagaattccg gcagcgatga agatttccta atggaagatg 480
atgacgatag tgactatggc agttcgaaaa agaaaaacaa aaagatggtt aagaagtcca 540
aacctgaaag aaaagaaaag aaaaatgcca aaccagact aaaggctaca gtgacgccaa 600
gtccagtga aggcaaaangg aaaattnggt cgcccacag cttcaaaggc atcaaanggg 660
aaagaatccn tctccaaaag aagaaagatg agggaaacgg aaaaccccc agaaaaggaa 720
aacatctana agcccccaa cccagaaatc tggggataaa ggggctgaaa aataaacccc 780
cntttgggga agntttaaaa ttatgaangg nctggggaaa aaattttttt aaaaaannnn 840
nnnnnnnnna aaaaaanttt cctgcccggg ggggcgcnc naaaggggga anttcaanaa 900
aaangggggc ggtttaaaaa ggggtttcca ccccn 935

```

<210> 28

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (1024)

<223> n = A,T,C or G

<400> 28

```

cttgnaccg cctcggatc cctagtaacg gccgccagtg tgctggaatt cgcccttcc 60
atctgtggac acttaatgca actgtttaaa aatgataatc acgagttatg tagcaacgtg 120
gaaatatatt tacagaacat taagtggaga aagcaggaca cgaaagtata tttatactac 180
agttataact caacagttca tttatatgct gttcatttaa cagttcattt aaacagttca 240
ttataactgt ttaaaaatat atatgcttat agtcaaaagc tgttggtgtg ttgtgttgt 300
aggcttatag ttgagcatta ttttcttaaa tttcttgaat gttctttatg gtagtggtac 360
taaaaagttt atgatcacat tttcattgtg aacataatct gaactcatta tcacacactt 420
ggaaaatata gaaaagtgga gaaaaaaaaa tcatacccc accatccaaa gacatatact 480
ctctcttat cttgttcatt ctgnttctg tgcacagggt tatgattata actgtgtcaa 540
aatgtatatt caaaatagct gttacattac ctttgtgaa ttatggtaa atactttcac 600
tttaattttt tcaaatgttc cctataataa tgtcctgata acagtgtatt atgtgtgtct 660
ccattggtgt gcataatata taccagagg aaaaattaga aaataaagta aattatttta 720
aaaaattacc tatattcccc aacacctaac aactactgnt aacatcttga nctggttcc 780
ctatcttgg tcaagtgcac accgcttng aataacaagg gttaaaaatg ngngccataa 840
aggtcntaaa atggaaaagg atgtgggaaa aatnacctaa aaataggggt ggccattggg 900
gggnaatttg ggttaaaaaa tttgggctcn aaaatncctt aaaaaaaanc ctttgggggt 960
tttgggaaaa aaaaatttta ggggagggaa ttttccattt ccaaatntta ntcntactc 1020
ntta 1024

```

<210> 29

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (1024)

<223> n = A,T,C or G

<400> 29

```

taggatncat gctcagcgg ccgncagttg gatggatata tgcnagaata cgcccttcca 60
tcctaatacg actcactata gggctcgagc ggtcgcccag gcagggtgcta acaaaccaaa 120
aacctgtgca cagaaacang atgaagaaaa tatatcaaga tgtaaacac actctttgg 180
tggtgaaaac atgggtgagt ttctcttcta cntttctgcn antncanagn ttctataatg 240
aacacatttc atatgtaatg ganntntntg tagtgnaagg tggactaccg gaacactaga 300

```

```

atgatgacct ttcaaggaaa ccgaancaaa ntnaccntan tcccacaana accacannac 360
tattncntgg tnnatnatgtt tcttcccatc tttgacattg atgcntactt aggactancg 420
ccctaataat cccagacttn ggcacagatc aaganggtaa cnggtgattg gaggtgggtn 480
gccggaantt ggggtgantg ttntttatgg anttnccann ttttggtagg ngattgnnna 540
aaattngaana nggaaacnct tacttnaant tgnttaccnn aacnccnagg atnttttaag 600
gattnggggc cnaaattttt acccaaattc cnncaangcc ancnetgtnt aagtcatttt 660
caaanntttt tcnccttaag accttaaggc cccctaagggt aacctgggaa tanaaggggg 720
ggcacntggn accagnttcc nagggaaacng nnccaagant ttccccntt ntttgtttgg 780
gggttgggaa atnnnnngnaa attttttaaa ggtaatncac ttaatttgcc aaaggaattc 840
ccttnggggg nggnnttatt gcncacccat gggagacccc cntaaggccc cnggaataag 900
ggcctttttt tttngggacc atttgggaaa aattttaaang ggaaggcnnt ttgnaccctt 960
aatttcccca aggnaaangg aaccncccnt tttggnatt gcattttngg ccccgttttt 1020
aagg 1024

```

```

<210> 30
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 30
gtgcgctcta gatgcattgt cgagcggcgg ccagtgatgat ggatatctgc agaattcgcc 60
ctttcgagcg gccgcccggg caggtacttt aattttgctt gttcaaata tctacactta 120
cattttgcaa atcttttttt ttaaattttt taaattttat attttttttc cagccaactc 180
aaggccaaaa aaaatttctt aatatagtta ttatgcgagg ggaggggaag caaaggagca 240
caggtagtcc acagaataag acacaagaaa cctcaagctg tgaggtcaat ttgtaattaa 300
aagaatacta agattagatg aacacaacac tcagaaatac tctaggagag ctgaaaaaga 360
aggaacagat gttacaacaaa caaattaagg ctgctgggga acctgagtc atgttaagct 420
tgggttgact gtaaaagaatt tttttttttt taatgcaagt tagacatgga gttagagggg 480
cagataaata acgaagagaa ttaagttagc gatagaaaga tctaaggata ctagctcctg 540
ggcacctagg gtgcaaaactg acttggtggc gcataaagct atgctgcaca ggggacccaa 600
gccatgttgc tacttgtcac ttaaggcang aagcgacaaa aggaagtgat gaaaggggat 660
tagcctgcaa cattatttac agcatganag cctctcctac gggccccaac cttcattagg 720
cactactggt gattcaagtg aatgggttgt aaccantcc ttaaaaggca aaggatggtta 780
ggantttaca gggaaaaaaag cttccgggggt ttancaaatt caccaatcan caaaccacat 840
attgaagttt ggttaaaaaa aaaaaanann anaaaaaagt nccctcgccc gngaaacanc 900
cctaaggggg naaattccag canactgggn gggccgntta caaaggggtt cgaaccncgg 960
taccaaacct tgggggttaa ncaaggggca aaancgggtt ncccgnnggg aaaattgttt 1020
nccg 1024

```

```

<210> 31
<211> 1019
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1019)
<223> n = A,T,C or G

```

```

<400> 31
gtngatgca tgctcgagcg gccgccagtg tgatggatat ctgcagaatt cgccctttcg 60
agcgcccgcc cgggcaggtg ccatgctgac ttcttggtat cttttaaggc ctaattttcc 120
cttccttagg attactgtag tgtgttccag ctaattttcta tttggaacg agttggaaca 180
gctgaaaact aggtattatt gaaggcaaa cagcctcacg tcagtttttt atcagctcat 240
ttgggaagtt tttttttttt ttttttttta attaattaga aagtaggctg ggcacgggtg 300
ctcatgccta taatcccagc acttggggag gccgaggatc tcctctctgg tggatcactt 360
gagggcagga gttaagagac catcctggcc aacatgatga aaccctgtct ctactaaaaa 420

```

tacaaaaagt	agctgggcgt	ggtggcatac	tcttacaatc	ccagctactt	gggaggctga	480
ggcaggagaa	tcacttgaac	ctaggaagca	gaggttgcag	tgggccaaga	tcacaccact	540
atactctagc	ctgggcgaca	gaggtgggga	aaaaagtagg	acccctgtcc	tatattcagg	600
tttttctcac	atatatgaac	ccatctaaat	tctacgttgt	taaaggtanc	ttaggttaat	660
taagtcata	cttatttaag	accaatatgg	ggtgaaatgg	gatttttttt	taaaaatcct	720
acagntnagg	ctttccnact	ttcctttnaa	atgaggaaaa	aaaggtgaca	aaaattcaag	780
tgtcaatgtc	ccctcctggg	gaaanaggtt	tanaaaaaaca	acaggctcaa	ccttctgaac	840
tnctaacaan	ttcccttnga	aanttaacga	anccattaaa	atcnngattt	taaaagagga	900
aaanaaaaaa	gttcctcggn	cggnnacaan	cctaaggngn	aaattccaca	aaaanngggg	960
ggcctttana	aagnggttcc	nacccggtac	aaaaccttgg	gnttaaccan	gggccaant	1019

<210> 32
 <211> 1024
 <212> DNA
 <213> Homo Sapien

 <220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 32						
accgccctcg	nateccctagt	aacggccgcc	agtgtgctgg	aattcgccct	tgttggtggg	60
tgttggaat	atgtgtgaat	tttctttact	gaatttccaa	agttttgtat	gagtatgtat	120
tatatattgta	atggaaaata	catacataaa	atattattacc	aaaacaccaa	agattatttta	180
aggaatttga	gacaaaatat	ttaaccaaat	ttccacaatg	acaacactat	tttagttatt	240
ttccacatct	tttcatttaa	gacttttatgc	acacatatatt	aacactgtta	tcacaagcgt	300
gtgcactgaa	acaagataga	ggaaacagat	caagatgtta	gcagtagttg	ttaggtgttg	360
ggaatatagg	taatttttta	aaataattta	ctttattttc	taatttttcc	tctgggtatg	420
tattatgcac	accaatggag	acacacataa	tacactgtta	tcaggacatt	attatagggg	480
acatttgaaa	aaattaaagt	gaaagtattt	aaccataatt	ccacaaaggt	aatgtaacag	540
ctattttgaa	tatacatatt	gacacagtta	taatcataaa	cctgtgcaca	gaaacaagaa	600
tgaacaagat	aagaggagag	tatatgtctt	tggatggtgg	ggatatgatt	ttttttcctc	660
cacttttctg	nattttccaa	gtgtgtgata	atgagttcaa	attatgttca	caatgaaaat	720
gtgatcatta	aacttttttag	taacactacc	aataaaggaa	ccatttcaag	aaaattttaag	780
gaaaaataat	gctcaactat	taagcctacc	acaaccaaca	cccacaacag	cttttggaact	840
attaagcnta	tatatatttta	acnggtatta	atggaaactgg	ttaaatgaac	tggtaaaagg	900
aaccgcatnt	taaatggact	ggtgnggtta	taaccggtgg	tataaaaana	cctttggggc	960
ctggtttttc	ccttaanggt	ctgnaaanat	attttcncgt	ngtccanacc	ncgggatatc	1020
aatt						1024

<210> 33
 <211> 1024
 <212> DNA
 <213> Homo Sapien

 <220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 33						
gcntcnaga	cncatgctcg	agcggncgnc	agngtgatgg	atatnnngca	gagnnccgcc	60
ttccancna	atacgacnca	ctatagggcn	nnnnnnntng	gcnnccttgn	tgcccctccn	120
ctcgnataat	anctatatata	acgaaattgt	nctggccttg	agttggctgg	agagaaatat	180
tnngagnnnn	accngtnnnn	ntnnngnnatc	ngtaaantgt	aanagtagnt	catttgaaca	240
agcaatnatt	naantaccca	ctgngggaaa	ngngnctgaa	tcttactctt	ntggatctgc	300
aggantaggg	cttgtnagta	tgtcaaanat	gcnnncagtg	tcaangttta	ngccnattgt	360
agancntngta	gcaggaancn	acnntgangg	ancnncagaa	nggagncctn	anacatnncc	420
agatntacga	ggngagagga	gacanacnga	gaaagacacc	ntaggnncga	nctgnagaag	480
gncaggattc	tgagaatgaa	ntgcncggnn	agtcocnganc	agattggaaa	aggagnttct	540
ganggnatgg	tgcacnngag	ggctgacnng	tangaggnac	tgntgttgga	acgnacatag	600

cgaagntgn	tgngcagtga	ggattactac	atgnngaaaag	gactcttgaa	acgaggaact	660
aactgtgatg	ncanggctga	agtttgggcn	nccatacttt	gnaggttaca	attnttngca	720
gtggncgncc	cgtttaaana	gccnttttga	tggaaantca	aggggtgnncg	gtacnacctt	780
ccnttttaggg	nacaaggcnt	tnccgantgg	gtngccagga	agaanganng	ccnnanccct	840
annngngggg	ccccttaatn	gcacnggggtg	aacaatgcna	accctcgggt	tattggaaen	900
accgnggana	anatggttac	cgaaccatta	ngtgggggna	aaccgggacc	ccggaaggct	960
tttttncct	cngggtaaaa	acttaacaga	ccnatttttt	gcccgcctt	taacangtct	1020
tttt						1024

<210> 34
 <211> 982
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(982)
 <223> n = A,T,C or G

acaacaatct	aagcaaatct	caaatacaac	atacttgtaa	ttagaacaca	atgcaatgac	60
ttgatttttag	caagaactag	acacttaatt	tggtaaaaga	aaccaaaaca	tgcatttat	120
tgaatactaa	gctaagttac	cataattagt	cttataaatt	ctcaaatttc	acaactactt	180
ttgaacatct	aaattttaaac	ctaaaattttt	taattaaatg	cctgttcaac	aaagctaatt	240
ggaacaaaca	catttatgta	aattttacatt	ctagaatacc	agggtaaaca	aggagacgtt	300
attcaaagat	gaatgagaaa	gttctattct	ttttcatcat	ttgtgtgatc	aggttgcaaa	360
ggacatgctc	tttctctgat	gaaactgatg	tcgaattagt	ggcagagggtg	gaagaaccaa	420
gcacctttct	gggggctcga	gcagccacca	cttttctgta	agtgcctggg	aacactgtct	480
gcttttagtcc	gcaccatggt	caaacaagaa	gagaggagag	gagagaacga	actgacttcc	540
cagccgaagg	tgtttctactg	ggacaaggcc	ccgcgttacc	tgcccggggc	gggcccgtcg	600
aaanggcgaa	ttccaagcaa	cactggggcg	gccgtttacn	nagtgggatt	cgnggctcgg	660
gtancaaagg	ttgggggttaa	tcaaggggca	atagccgggt	ttcccngggg	tgaaaaatgg	720
tnntccngnc	acaantccca	nacaancatt	ccgaagccgg	gaancntnaa	agtgttaaaa	780
ncctgggggt	ngcccaaatg	angtggngct	naactcccat	ttaaattngc	gnnttgcgcc	840
nannggccng	cctttccaat	tnccgggaaa	cctgttncgt	gccaaagtcg	cantaaagaa	900
atcncggcna	antccccggg	gnaaagggcg	ggnttgccgt	nttggggggc	gncttccggg	960
tttcccgggc	caaagggann	ng				982

<210> 35
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

cttgcccg	cctcgatcc	ctagtaacgg	ccgccagtgt	gctggaattc	gcccttccat	60
cctaatacga	ctcactatag	ggctcgagcg	gccgcccggg	caggtataaa	atttaaaaaa	120
tttaaaaaaa	aagatttgca	aaatgtaagt	gtagatcatt	tgaacaagca	aaattaaagt	180
accactggg	ggaaatgtgt	ctgaatctta	ctcttctgga	tctgcaggat	tagggcttgg	240
aagtatgtca	aagatgcagg	gagtgtaaaa	gttttaggaag	attgtagagc	tgagagcaag	300
aagcagaaat	gagtgagtca	aagaaggagg	tcctaataca	tcaccagatc	taggagggga	360
gaggagacag	acagaagaaa	acaccagagg	caagaactgt	agaaggccag	gtttctgaga	420
atgaattgag	cgggggtgtcc	tgagcagttt	ggaaaaggag	tttttgatgg	tatgggttag	480
gtgagggtg	gctgcatagg	aaggactgag	gttggagcgg	acatcgggaa	agctgagggg	540
cagtgaaggt	tactacatgg	gaaaaggact	cttgaaacga	gaatcagttg	tgatgtcagg	600
gtgaactttg	tgggtacatt	acttggtgtt	aacattggtg	gcagtggtaa	gccccttttc	660
agaaaagcaac	ttgcttgtaa	gtcanggtgt	ccgggtccaa	ctttaactag	tgaaaaggta	720
gtaaccaatg	gtaaacagg	agaatgattg	gttnaaccct	atctgnngac	acttaaatgc	780

cactgggtta	aaaatggnaa	tcacgagttt	tgtancaacc	ggggnaatat	atttaccgga	840
acctttantg	ggnaaagcc	ggncncnaa	ggntttttat	tncttcnggt	tttaacctta	900
acaggtncaa	tttataatgc	cggggccattt	aacagggtcat	ttttaacccg	gtcnnttttt	960
accnnggtta	aaaaanntnt	atgcctttag	gncaaaaanc	ttttnnnggg	gnttnttgtt	1020
nang						1024

<210> 36
 <211> 1024
 <212> DNA
 <213> Homo Sapien

 <220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 36						
taccgctcg	natccctagt	aacggccgcc	agtgtgctgg	aattcgccct	tccatcctaa	60
tacgactcac	tatagggtc	gagcggccgc	ccggggcagg	tagcaaatgt	tgtggcattc	120
ctcctcctcc	tcaagtcttt	acccgaaact	acttcccaag	agaggttgct	cttcccaaag	180
aatcacctgc	cctggggacca	tatggggcta	ggctgagggg	caggagccaa	gagcctgggc	240
caaactctgt	ctgtggctta	ctgtgagacc	ctaggcaagt	tgcttaccct	ctctggggct	300
caaattcttc	ctctttgaaa	taggaataat	aacttcatca	ctagaattct	tcacctgggt	360
gttgtgaagt	taatcagaat	aaatgtggag	ataatacatg	aatgagcgta	cagaatatta	420
tttggtctgt	ctgtggcatc	gatataggtc	atgatagtga	caatagtgtc	tgtcattgta	480
ttccacacca	cttcttcctt	cagctaaagc	aggaaaagaa	aggaggtaag	tctctctgtg	540
ttttttcttc	ctttcccaaa	gcccactttg	ttaccttcct	tggttgctgg	atgagaaatt	600
agtcagaggg	tcagagagga	cctcaacttc	atatgcttta	aatagagcat	atgcaatttt	660
aaaccatcct	cttaaccaat	ttttcttttc	ttttcagttt	ttccccagtt	atacttccac	720
atgatacacc	agagaaggaa	gatcctttct	catactgaag	aacacaagaa	atttgaatag	780
ttcctgcttt	ctgnaccttc	cacccaaaaca	aacttttcaa	tgatccaaaa	aactggcttt	840
gnactgggga	gtcacgggaat	gggccggctt	ccangganca	tggcggnnng	gcctttgcgg	900
ngtcgggcct	gtggtggcgg	cggaaaggna	accgggggca	tggnntnccg	agcctggctc	960
tgccccccng	ggncatgggt	tggaggcaaa	gaancctgaa	gtccccacng	gcccccgga	1020
agna						1024

<210> 37
 <211> 1024
 <212> DNA
 <213> Homo Sapien

 <220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 37						
cttggcaccc	cnctcggatc	cctagtaacg	gccgccagtg	tgctggaatt	cgcccttcca	60
tcctaatacg	actcactata	gggctcgagc	ggccgcccgg	gcaggtgaat	tcagcggccg	120
cttttttttt	tttttttttt	tttttttttt	acagggcggc	tttttgtttt	atttctgctt	180
ttttcccttt	ttcttaaaaa	aattaaataa	agtctctatt	atttcccaaa	tatacatcaa	240
atgagttttc	atgcaaagca	gcagtcacag	aggcagaact	gtccccagct	cgtgcctntc	300
ggcttgaaga	accaccttnt	cccggccccg	ggttctctgg	ngttctcact	gaggatggac	360
gacgccact	gtctntccca	gctggaactg	gctatgacga	aacttggtg	gcgtagggag	420
aggagtcttc	ccctntcccc	aggatggggg	ctcaggggac	agcaagctct	ggggcctgat	480
ccccatcact	tgnccttcca	tctgagactc	ccagtgtgac	agcttgagca	ggtccctctt	540
cccaggaatg	cgaggctcct	cctctcagct	ctcaatggac	atggcattaa	tgagctgctc	600
cacctataaa	gccagccgnt	gccgcgtg	ctgctcatcc	tgctctaggg	ccccgatgag	660
ctcctacta	tacttgctga	cataggagta	gatctcattg	ggggcactca	acatgttgaa	720
actccacggn	gtgcaggcgg	gactgctcgg	caggggtagg	cattcatggc	ctggctcactg	780
gatggctggg	aaccttgggc	aaggctgcgg	nagnatcttt	ttccccagc	tnttggnaac	840
ttggggaagg	cccttgggca	taaaaagcaa	cttggttgga	anggggaggn	ctttgcccac	900

cccgggggct ttggacgttg gaacaagagt nccttgaagg gtttgggncc cccncaaaaa 960
ngcangcntc cgggaaagcc gcccttgggg gtgncaaaac cccnaactgg ggggttnttn 1020
aanc 1024

<210> 38
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 38
taccgccttc gcacccctag taacggccgc cagtgtgctg gaattcgccc ttccatccta 60
atacgactca ctatagggct cggcggccgc ccgggcaggt gccgcttttt tttttttttt 120
tttttttttt tttttgcttc acaactgttt attttaagct gaaacttcaa tattcattga 180
ttacctataa taatagttac tcataaatgt agttaataat taaatataaa aattattatt 240
tttacattta tataaatctc tgaataatc caagtgttga gagatagagc aagaaattgc 300
ttanaaaatt gcaggaagcc tgaanaatct cagcatcagt caaagcaggt ncaacaaaaa 360
acaattttag acattcattt tttgctttta gagtgcttaa aataaatgat cacagaatga 420
ataactgatg tatggcaaaa atgagtttaa aactatgtaa gctccaaggc cccaatgtgt 480
ataagaattc tttggaagga ttttgaagga ctgtaaattg tgcaataaaa agtaaaaaact 540
agtagttagg caatgngttt taaactatag ngtcacctac tgntcttctg gtgcctaact 600
gnattcttca acatcttctt ttcccttttg attagaaatc ctgggtctacc tcaaagggtt 660
tgcattgntt tctagggaca tcagcaaaact ggtagaccat atgagaaaaca gaaataaaca 720
gtaatatatt ctttagaaat taagcattat gtacncagtg agaaatggat tgacttgata 780
gaccttaaac ccctttcttc ctttcacacc ctttntagna ccacctaanng gtatccggat 840
tggggatggg gcccncntnt ggtaatcccc cttnnagtcag gacagggggc cctaaggggc 900
caattttntt tcgaattaga gaaatncccc attttttggg ggggttggca gtnttanccc 960
anggcttgca aaggcttntt tttgaagana cccccaaacc cggggncctn tttttcngga 1020
atca 1024

<210> 39
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 39
tcgcccagac agnangencn agcggncnnc agtgtgatgg ttatngtggn gnnttcgcnc 60
tnccatncta atnctactca ctataggggn cntgngncnc nnggcagatn ntnacnnntn 120
annnggtgtaa ctgatatcat ntncnanna ccattggttac atnnanntag gtctcnnang 180
nataccangc tntgagagnt ngaccnggaa ntcgnttnga aannttgngc gangccngat 240
caatatecnc atcngncaca gcggntccgc aagctgacaa tncctgnanat tnattnttgg 300
tttannganc nnttacangn atggnncccn gagatgcatg nnggagtagt gcaaagatgn 360
ntgtaaaact atgtaagctc naaggcccca atgtgnataa cagttcnttg nanggantnt 420
ganggantgt aagngntnaa nntnaangnn anannnaaga ggtangncat gagcccnaaa 480
ctgtagnnnt anctacagng cttangggcg ctacctggga caggcnacgn cttcattaac 540
cttttgatta gaannacggg ggtaacncac nggttngca tgggtccagta ggngcattgn 600
ccngcngggc aaccatagc tngncncaa taaacggtgc ttttanctca nnagattaaa 660
gcttttttggc cacaggggna aaagnatggc ttganaggcc ttaaaccccc gtactcngtn 720
caccctttn gagaaccncc taacgggatc tggaaatgng atggccccct nttgggaaac 780
nccctanaag anacctcng ngacccttg nggcccatt tgangtttag nacngcaatt 840
tncccathtt tngngttttt gccaacctta agncatnggc tggcaatgga ntgnnttttc 900
caatagaanc aaaccocgg ntttttttgg ggggnatcag gggttaagggn nttggcaaaa 960
nnaaannggc ncnnngnaaa aatttttccc nggtntatcn aaanncccca aagcttttng 1020

caan

1024

<210> 40
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 40
nggacgcatg ctcgagcggc cgccagnng atggatntng tgcagaantc gccctttcat 60
gcctatgac cngcacttg gngaggccga ggatctcctc tctgggggat cacttgaggg 120
caggagttaa gagaccatcc tggccaccat gatgaaaccc tgtcncctact nnacatacag 180
gaagnagctg gncgngntgg catactctta caatcccagc tacttgggnag gntgangcag 240
ganaatcact ngnacctang aagcagaggn tgcantngnn ccaanancac accactatac 300
tntagcctgn acgacagagg tgntgataaan agcnggaccc ctgactatat ncaggntttt 360
ctgacntnna nnancncatc taaatnctac gccgtntgag gtcgcntagg ttangtagnn 420
natnctnatt tatgaccaat atgntgtnan acggcntnnt gntnaaaant tntacagnan 480
ggcngnctac nttincttata atgnggaaaa cggtgntga natncangtg nnnnngtccn 540
ttntntggna agaggnttng aaanncanca gtgcaccttn tgaactctac nagnagcttn 600
tgaagctaac naagcnttaa natnagatgg cntgntagga ctgtacnngc anggaaagat 660
tcacaaaact ggacattctt naccgagata ngntcttgct ttaccgggga ggacnnntcc 720
aaggntgtnt naagagggac agtcagctta gtnntgctng ggtagagaaa accangactt 780
natntgtgag cttgatnngc agaacctggn nanccttgga agagcntnga ttgnccngat 840
ccctgaaagg gcnnncttna ccctatcggg gacctnnna acctcttang tggcacgcaa 900
ggcacnaacc nggcncnttt caagaatcnc nggaatcnag gccctttct tgggntnanc 960
cngnnnnncc cgttnagncc cncgggnaaa anntcttggg nntttccaat ccngngggnn 1020
nttt 1024

<210> 41
<211> 1004
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1004)
<223> n = A,T,C or G

<400> 41
ggtnnnntta atcatcgccn gcttggtacc gagctcggat ccctagtaac ggccgccagt 60
gtgctggaat tcgccccttag cgcccgcccg ggcagggtact tcccaccact ggaaatgtta 120
gcataaaaaga acttgagag gaaaaaagta ttaacaaaac tgcagtctgc actctttaa 180
cctgtttaag gctcttcac ctggttagca aaaggtgtga atgtaatgtg atggaattta 240
aaagttttat gagaccaggc acagtggctc acgactgtaa ttccagcagt ttaggaagcc 300
gaagtgtgca gatcacctga ggtccggaga ccagcctggc caacatgggt aaaccctgtc 360
tctactagaa atacaaaaat tagccagggtg tgggtggcggg cgctgtaat cccaactact 420
caggaggctg aggttagaga atcacttgaa ccagcaggc ggaggttgcg gtgagtcgag 480
atcacgccat tgcaactccag cctgtgcgac aagagcgaaa ctctgtctca aaaagatttt 540
ataagaaagc agagcttttc cttgaagctc ttttgaagtgt gtagcttaat tagtattttg 600
ntgaaaatac tttaaagatg cctagtgaag agcctactaa agtgctgtga aaaatggggt 660
ttanaacatt ttattttcan gctttatggc ctattttcca ttgnggcaag tgcaaaaacta 720
ccctggccca aangaagggc agagaacata attacctctt anggcacatt tcattctttg 780
cagctttgct taatccagtn gctaagttct ttacctnaac cctgnaggna ttgaacntta 840
ttncatttn ngnaaaaggg tcacctntt nnnacaatnt tncannanct ttttnggaag 900
ttanccnttg gccttaaaan ttnaaaantc cntntggnt tccctttatn ccccnhangg 960
gnnnantang gnnctggattt ttaangncc ttggcngaa cccc 1004

<210> 42

<211> 1020
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1020)
<223> n = A,T,C or G

<400> 42
nnnnnnnnnn nnnnnngattg ggcctcttag atgcatgctc gagcggccgc cagtgtgatg 60
gatattctgca gaattcgccc ttagcgtggg cgcggccgag gtacctttga taattcctag 120
acctctattt tcattctgtg tattaatgtg aataacagat ggatatttta atatttaagg 180
cagatggtaa acttttcctat aggtcttggg agacttcgtc ttataggctg aacaccattc 240
acaaaatgta ataatgcttc attccttcag gttgaggtaa agaacttgag caactggatt 300
agcaaaagctg caaagaatga aatgtggcct aagatgtaat tatgttctct gcccttcctt 360
tgggcccaggg tagtttttgc cttgacacaa tggaaaaatag gccataaaagc ctgaaaataa 420
aatgttctaa accccaatct cacagcactt tagtaggctt ttcactaggc atctttaaag 480
tattttcaac aaaatactaa ttaagctacc acttcaaaag agcttcaagg aaaagctctg 540
ctttcttata aaatcttttt gagacagagt ttcgctcttg tcgcacaggc tggagtgcac 600
tggcgtgac tcgactcacc gcaacctccg cctgctgggt tcaagtgatt ctctagcctc 660
agccttctgg agtaagttn gaaacacagg gccccgncaa cacacctggc taaattttgn 720
atttctagta naanaccagg ttttnancat gttggncagg gctggctctc cggaaccttn 780
angtgatctg gacaccttg gntttcctaa actgggtgga aattancagc gggaaccnct 840
ggggcctggc tcattaaacc tttaaaatnc cttnccattc anttncacc ttttggtaac 900
cccgatgaa aacctttnaa ccgggtttta agnangcnna nnnngggnat ttgtaaaaat 960
ttttcccnt tccaagtcnt ttaagccaan nntttncng gnnnnnggan ccctnccggc 1020

<210> 43
<211> 1020
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1020)
<223> n = A,T,C or G

<400> 43
ggagnnnnntt aaacgccagc ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt 60
gctggaattc gcccttagcg tggtcgccc cagggtactt tttactgctt tgtcttcaag 120
gcctagtgtg ataattaaca tctagtatgt gtttgatgga tagccaattt ttgcttcatt 180
ggtagtgtgt taccacagtc attggtagag tcaatatatg aatgaagaaa gtataacaaa 240
tttgccctct agtagagtag tttttttttt tttttttttt ttttggtttt tttttttttt 300
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 360
tttttttttt ngnnnttttn ncnttttttn aannaaaaan cggcccnann accnncnnc 420
nnnttttttt nncnggccnn cnggnttng gggngggggn cnttngggc cnnngggnen 480
cttttttcn naagggtttt ggggttttng gggnaaant tnggnncnan nnnngcccna 540
aaaaanttnn gncnanaan cgcntttcc nannnttnn cnttggggc caaaaanttn 600
cgnaaccenn tgggcnnaaa gggcnttgnt ttttttggg nccccnaaac canggggggg 660
cnnaaaaaat gnccttgaa ntttttaaaa aacctntgg naaaancccc nngggttccc 720
ccnnnnnccc ttanttttnn acanaanggn nnaaangggg ncccnnaaaa naccnttngg 780
ggcctttttt tnacaaattt ggggnttttn aaaggggtt tngggggggc cctntatncc 840
ccnaaaaang aaaggggnnc ccccccnnn nnnnnnnnc cnaancccc ggnnttttn 900
ccnggggggg ccnnnaaaa ggggnaant ttnggnaaan nccnnnnn ggggggncn 960
ttnaaanntc nntttnanng gggcccnnn nccccnnn annggggggn nnaaaaaccn 1020

<210> 44
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 44
nnngnnnnnn nngattgggc cctctagatg catgctcgag cggccgccag tgtgatggat 60
atctgcagaa ttcgcccttt cgagcggccg cccgggcagg tacgcggggc tcggcgctgc 120
ctacggaggt ggcagccatc tccttctcgg catcatggcc gccctcagac cccttgtgaa 180
gcccagatc gtcaaaaaga gaaccaagaa gttcatccgg caccagtcag accgatatgt 240
caaaattaag cgtaactggc ggaaacccag aggcattgac aacagggttc gtagaagatt 300
caagggccag atcttgatgc ccaacattgg ttatggaagc aacaaaaaaa acaaagcaca 360
tgctgcccag tggcttccgg aagttcctgg tccacaacgt caaggagctg gaagtgtctg 420
tgatgtgcaa caaatcttac tgtgccgaga tcgctcaca tgtttcctcc aagaaccgca 480
aagccatcgt ggaaagagct gcccaactgg ccatacagat caccaacccc aatgccaggc 540
tgccagtgag agaaaatgag taggcagctc atgtgcacgt tttctgttta aataaatgta 600
aaaactgcaa aaaaaaann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn aannccnnnn aaaaannnnn nnnnaaaaag 720
gcttntttta angggcaaat tgggaaacct ttttnattca aaaatggctt ttnccangga 780
ctggggacca nnttnccng gggncaaaaa ttgggnttcc cttaanccc nntncnnaan 840
gggaattttt ncccttgggc cttgaaaaac naagcnnna aaaagncctt tgggnnggaa 900
acccctttng ggggaatttc cncncnttg gggggcnnnt ntnnnnnggg acccnanttg 960
gncccaantt ttggggaaaa nnnnggnnaa aaagggnnnc cctgggggaa aatgttnccc 1020
ccca 1024

<210> 45
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 45
ggagnnnnnn aatcatagc cagcttggtg ccgagctcgg atccctagta acggccgccca 60
gtgtgctgga attcgccctt tcgagcggcc gcccgggcag gtacggcgca ttttgtgcac 120
acaaaatgtg cgcacacaca cacacacaca cacacagaca ctccctgcaca tggcctgtta 180
aagaactaca agggaggtgg gacgcgggaa agtgatgggt gtgggtttgc atcgtctcat 240
cattgattct tctcatattt ttctctgatt agagaaaacta aagagaattt tgtgagaaag 300
gcttgaaagt taatgagtta tctctaccaa agtgattaca agcagaaatc ctcagatgct 360
gtagagatgc tgaccacac atccttagct caaggaagcc cctcgcatta gtcaccttca 420
gccatcagca gcctccacca ttaaccccag tgtgctgtat aaaaaatact ttctacatgt 480
gcccgaattt gaaaagttag gaagcactga tttcaaagca aatcattcac atttgaactg 540
tcttcagtgt acctcgccg cgaccacgct aagggcgaaat tctgcagata tccatcacac 600
tggcggccgc tcgagcatgc atctagaggg cccaattcgc cctatagtga gtcgtattac 660
aattcacttg cgtcgggtt tacaacgtcg tgactgggaa aacccttgcg ttacccaact 720
taatcgnent ggagcacatt cccnttttgg ccnactggcg taattaacca aaaaggnccg 780
gaccgaatcg gccntttcca acaagtggg ccaacctgaa tnggcnaaan ggcccccccc 840
tgtaaccggn gccattaaac ccccgncggg nnnntngggg tacccecaac ggggaccggt 900
taacttgccc anggccttaa ggcccgttcc ttttggtttn ttnccctttn tttttngccc 960
ntttncngg nttttcccgn aaagntntaa aaaggggggg tccccnttta ggggtcccaa 1020
taaa 1024

<210> 46
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 46

nnngnnnnnn	nnnnnnngaa	ttggggccctc	tagatgcatg	ctcgagcggc	cgccagtgtg	60
atggatatct	gcagaattcg	cccttagcgt	ggtcgcggcc	gaggtacact	gaagacagtt	120
caaatgtgaa	tgatttgctt	tgaaatcagt	gcttcctaac	ttttcaaatt	tgggcacatg	180
tagaaagtat	ttttataaca	gcacactggg	gttaatggtg	gaggctgctg	atggctgaag	240
gtgactaatg	cgaggggctt	ccttgagcta	aggatgtgtg	ggtcagcatc	tctacagcat	300
ctgaggattt	ctgcttgtaa	tcactttggt	agaagtaact	cattaacttt	caagcctttc	360
tcacaaaatt	ctctttagtt	tctctaata	gagaaaaata	tgagaagaat	caatgatgag	420
acgatgcaaa	cccacacccat	acactttccc	gcgtcccacc	tcccttgtag	ttctttaaca	480
ggccatgtgc	aggagtgtct	gtgtgtgtgt	gtgtgtgtgt	gtgcgcacat	tttgtgtgca	540
caaaatgcgc	cgtacctgcc	cgggcggccg	ctcgaaagg	cgaattccag	cacactggcg	600
gncgttacta	agtggatccc	gagctcggtg	ccaagcttgg	cgtaatcatg	gncatagctg	660
nttcctgtgt	gaaattggta	tccgctcaca	attccacaca	acatacgagc	ccggaagccn	720
taagtgtaaa	agccctgggg	tgcctnatga	gtgagctaac	tccattaaat	tgcgttgccg	780
ctcactggcc	ggtttcagtc	cggnaaanct	gcggnacnct	gcantaatga	atcggncaac	840
gccccgggga	aaaaagcggg	tgcgaattgg	gccctntttc	cctttcttgg	ttaatggact	900
ccntnngnct	tnggccnttc	ggnttngggn	naacgggatt	aanttnnnnt	naaagggggg	960
naanacgggt	ttncnana	aatcnggggn	aaacccccng	gaaanaaaacn	ttggncccaa	1020
nggc						1024

<210> 47

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 47

ggngnnnnnn	aaacgccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggtcgcggc	cgaggtgcat	ctgaacattg	ccaagcccta	120
ggacattccg	tagagcttgg	ggattctgga	ccaattgggt	cagacaggac	acgaaatgcc	180
tgtttgatgg	gttctgcaat	taaacaccca	actactctct	tttcatcaga	tataaaaaga	240
aaagttttta	ttttgtttgg	acatttagga	acaacttgct	ggaagcccaa	ttcattatca	300
acaagttctt	ggacatcttc	tacctttttg	atagcaaagc	ttggatcatg	tggcagaacc	360
aacacgattt	tcccatacca	aaactctgct	actacacggt	ctttcttcca	acccacatat	420
ttgattccct	ccagaaacct	gtggtgatgc	tgtacctgcc	cgggcggcaa	gggcgaattc	480
tgcagatata	catcacactg	gcggccgctc	gagcatgcat	ctagagggcc	caattcgccc	540
tatagtgaat	cgtattacaa	ttcactggcc	gtcgttttac	aacgtcgtga	ctgggaaaac	600
cctggccggt	acccaactta	atcgcttgc	agcacatccc	cctttcgcca	gctggcgtaa	660
taagcgaaga	ggcccgcnacc	gatcgccctt	tccaacagtt	gccgcagcct	gaatggcgaa	720
tggacgcccc	ctgtanccgg	cgcattaaac	cgcggcgggg	tnnttggggg	acccnccacg	780
gggacccggt	cactttgnca	agggccctaa	cggcccggtc	cntttcgctt	tcttnccttt	840
cntttnttgg	ccacgttngn	ccgggttttc	cccgtnaage	ttttaaaatn	gggggcttcc	900
cnttttaggg	gttccnaatt	aanggcttta	cgggaccctt	gaccccnaaa	aaactttnnn	960
tttnnggggg	gnggggntnc	ccntaggggg	ccattgnccc	ttgnnaaaaa	anggtttttt	1020
nncc						1024

<210> 48

<211> 1017

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1017)

<223> n = A,T,C or G

<400> 48
gnnnnnnnga ntgggcccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60
gcagaattcg cccttgccgc ccgggcaggt acagcatcac cacaggtttc tggaagggaat 120
caaatatgtg ggttggaaga aagaacgtgt agtagcagag ttttgggatg ggaaaatcgt 180
gttggttctg ccacatgatc caagctttgc tatcaaaaag gtagaagatg tccaagaact 240
tgttgataat gaattgggct tccagcaagt tgttcctaaa tgtccaaaca aaataaaaac 300
ttttcttttt atatctgatg aaaagagagt agttgggtgt ttaattgcag aacctcatca 360
acaggcattt cgtgtctctg ctgaaccaat tgggtccaga tccccaaagt ctacggaatg 420
tcctagggct tggcaatggt cagatgcacc tcggccgcga ccacgctaag ggcgaattcc 480
agcacactgg cggccgttac tagtggatcc gagctcggta ccaagcttgg cgtaatcatg 540
gtcatagctg tttcctgtgt gaaattgtta tccgctcaca attccacaca acatacgagc 600
ccggaagcat aaagtgtaaa gccctggggg gcctaattgag tgagctaact cacattaant 660
gcgttgcgct cactggccgc tttccagctn ggaaacctgt cgtgccagct gcattaatga 720
atcggncaac gcgcggggga aaaagcgggt gcgtaattgg gcgctctttc cgctttcttg 780
nttacttgac tccttgggct tcggccgttc ggntgcggnn aacggnatte aacttactca 840
aaaggcggna atacggtatt ccnngnaatc nggggataac ccccggaan aacttgacc 900
naaaggcccc caaaaggccc ngaaccgcna aaaaaggcgn cgnnnnnnnn ggggttctct 960
aagggtccgg cccctgggnn aggtttccca aaaatngnnn ccttnannnn nnnnnngg 1017

<210> 49
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 49
ggngnnnnnn anataaaacg ccagcttggt accgagctcg gatccctagt aacggccgcc 60
agtgtgctgg aattcgccct tgagctggcc gcccgggcag gtactgaaat tactctgaat 120
tcagaaatgt aagtatatgc agctaggtca taaagacact gctttagaga agacatgtat 180
tagtggaatg gaacaggtaa catctttgag aagtcaatga gttctgcatg cagggatttc 240
accatcgga tgaaggcaag aatgatgctt gcctgtgtgc ttctcagagg acgtataaag 300
ccactgagga tgagtgtac agtgcttgtg aattgtgggg ccacagacat ttaagttggc 360
attgcttttc tcctcctctg cttaatccac ctttataaat atggcagatg gcttaagaca 420
ggcatcatca gcattctctg agatgtgggc tcagagggca agtggggggc gtggggggtt 480
ccactagagg gaggaagtt tctgtttccc atgtgttagt tgtagttgtc tttgtgcttc 540
accagaaaag aggtagatg cgcaccttca cactaagagc ccgaaattgt gggtcagtac 600
tttttttttt tnnntttttt tggtnntttt tnnnnnnnnn nnnnntnnnn ngnnnnnnnt 660
tnnntnnnn ngnnnnnnnn nnnnnnnnnn ttnntnngg nnnncnctn nnnnnnaann 720
nnnnnnnnnn nnnnnnnnnn tngnnnnnnn nnnnncntn ngggnnnang ncccnannnn 780
nccnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnccnannn nnnnnntnn 840
nnnaanncnn tnnnnnnnnn nnnngnnnnn nnnnttnnan nnnnnnnnnn nngnnnaann 900
nnnnnnnnnn nnnnnnnnna aannnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 960
nnnnnnnnnn nnnnngggg nnnncccnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntt 1020
nngg 1024

<210> 50
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 50
ggagnnnnnn nntnngant gggccctcta gatgcatgct cgagcggccg ccagtgtgat 60

```

ggatatctgc agaattcgcc cttagcgtgg tcgcggccga ggtacactga cttgagacca 120
ggtgaataaa agtgcacacc ttaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaanaana ntataaaaaa tttnaaggta aagntnncnn ntnaaaatct tttaggggna 300
tccttatann nnttttcggn tntttnnngg ntngncctct nntnccnnt tttttnggna 360
ancccaann cccngnctta cennatgngn cananttaa anggtncntt nttngnggga 420
nctcannc ccgcctttt tnttnngggg ggnttncca nngnggngna aatgcncngc 480
tnatnaanan gggnttntc cnaaatnngn naancctga ggnggnaanc ntntggngct 540
tntnncngat tnnngnaccc cncnngcag anntcnttgn nnccttantn ccgggggnta 600
nacccttctt ttaaaancnc nntgntntna aaaannnttt ncctgancna tcgggntaaa 660
nennnttttt tgaaaaccnn ggctttttnn aanangctcc gntnggcnaa ctttggggaa 720
naaggntttt ttttaggcct tgcttttttag ggccanccta angngannnn ncngttgngct 780
tgnnngatgg ttttagggg tccccgggtg ggacnttnt tggggggaaa ttttggngcn 840
aggggntccc cttnaagaaa tccnnnttcc nggncncnaa ttncnnaaa aattnnnggn 900
ccnaaanntt tnattgggaa ggncctttgg ttgccccnt aaanggnccn naaaccttta 960
aaangggggg gcntttaatg gcncctttcn ggncccnaaa aaanggggnc cccccnttt 1020
nagg 1024

```

```

<210> 51
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 51
gngnnnnntt aactcccgct tggtagcgag ctcggatccc tagtaacggc cgccagtgtg 60
ctggaattcg cccttagcgt ggtcgcgcc gaggtacttt ttttttcttt tctttctttt 120
tttttttttt ttttaatttt gagatggagt tttgctcttg ttgcccacgc tggagtgcaa 180
tggcgcaatc ttggctcatt gcaacctcca cctcccgat tcaagcgatc cttctgcctt 240
agcttcccaa gtagctggga ttatagacgt gtgccacat tccagctga tttttgtatt 300
tttagtagag atggggtttc accacgttgg ccaggttagt ctggaactcc cgacctcatg 360
tgatcctccc accgcagcct ccaaaagtgc tgggattaca ggcgtgagcc accatacccg 420
gttgattgta gacttttgat tggattttac aaggacccat gagaggcaac aaagagaagt 480
tgtcaagaga acagacctg agaccaatag tttggctcaa gctctggctc cctaacttcc 540
taccagtttg accttgggca agttacctaa catctttgtg cctccatttt ctatttgtaa 600
aaggaaacta atagtagtgc ctactttata atagagttat taaaaatatt aaatgagtta 660
atatttgtaa agtaattaga aaaatgcctg gcacttcaaa agcagccttc atttattctt 720
tggaaataat tttaaatgaa ttcaagggtt atatgtagct tttaggcata tatnctaaa 780
tggcactgta aaactgcana aatatccgat ctttaaaaaa ttttgggtaa atttatcata 840
atatggnaac caaatcccat ttaatggctt ttagggttan ccgatnaaaa ccngaagttt 900
gcagtttaag ccncttatgg aangggaccc gaaattccaa gganccann gggaaaaaac 960
cccngagga atnttgccg ntttaantta aanccttttg gtnntttaag nnctaaaaa 1020
nttt 1024

```

```

<210> 52
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 52
gngnnnnnt tnnnttcng antgggcct ctagatgcat gctcgagcgg ccgccagtgt 60
gatggatgc tgcagaattc gcccttcgag cggccgccc ggcaggtact tcaaaactat 120
tcataagcaa aaatcagtg caaaaatatt tagtaactta aaaaaacaa aaagtataag 180

```

tagagacgga	caagaactcc	tccctgcttcc	tcccactggg	ctcatcgat	ttctgttcca	240
ttacataaga	gactaaaact	gacaaactct	gttttatcgc	taacaccta	aagcaataaa	300
tgtgatttgt	taccatatta	tgataaaatt	taacacaaaa	attttaaga	tcggatattc	360
tgcagtttac	agtgcattt	atgtatatat	gcctaaaagc	tacataaaa	ccttgaattc	420
atttaaaatt	atttccaaag	aataaatgaa	ggctgctttt	gaagtgccag	gcatttttct	480
aattacttta	caaataatta	ctcatttaat	atttgtaata	actctattat	aaagtaggca	540
ctactattag	tttcccttta	caaataaaaa	atggaggcac	aaagatgtta	ggtaacttgc	600
ccaagggtcaa	actggtagga	agttaggagg	ccagagcttg	agccaaacta	ttgggtctcag	660
gggtctgttc	tcttgacaac	ttctctttgn	tgctctcat	gggtccttgt	aaataccaat	720
caaaagtcta	caatcaaac	gggtatgggg	ctcacgcctg	taatcccagc	actttgggga	780
ggctgcgggt	gggaggatcc	ccatganggt	ncggagttcg	agactagcct	gggccaacgt	840
ggnggaaacc	ccatctntac	taaaaattcc	aaaatcanct	ggggaaggng	ggcacacgtc	900
tataatccca	cttcccttgg	aagcttaagg	ncnnaaggac	gcttggaaac	ccggaanggn	960
gnggttcaat	ggancccaaa	atnggccatt	ggnctttcnc	gngggccaac	angagccaaa	1020
ntcc						1024

<210> 53
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

gggnnnnnnn	tnncttaacg	cccgnntggg	accgagctcg	gatccctagt	aacggccgcc	60
agtgtgctgg	aattcgccct	tagcgtgggc	gcggccgagg	tacattactt	ggtgttaaca	120
ttgttggcag	tggtagcccc	ttttcagaaa	gcaacttgct	gtaagtcagg	gtgtccgttc	180
caaccttcag	ctagtgaaaa	ggtagtaaca	aatggtaaac	aagagaatga	ttgtttaaac	240
ctatctgtgg	acacttaatg	caactgttta	aaaatgataa	tcacgagtta	tgtagcaacg	300
tggaatatata	tttacagaac	attaagtggg	gaaagcagga	cacgaaagta	tatttatact	360
acagttataa	ctcaacagtt	catttatatg	ctgttcattt	aacagttcat	ttaaacagtt	420
cattataact	gtttaaaaat	atatatgctt	atagtcaaaa	gctgttgtgg	tggtgttgtt	480
gtaggcttat	agttgagcat	tattttctta	aatttcttga	atgttcttta	tggtagtgtt	540
actaaaaagt	ttatgatcac	attttcattg	tgaacataat	ttgaactcat	tatcacacac	600
ttggaaaata	cagaaagtg	gaggaaaaaa	aatcatatcc	ccaccatcca	aagacatata	660
ctctcctctt	atcttgntca	ttcttggttc	tgngcacagg	tttatgatta	taactgngtc	720
aaaatgtata	ttcaaaatag	ctgggtacatt	acctttgngg	nattatgggt	aaatctttca	780
ctttaatttt	ttcaagggtc	cctatnataa	tgccccggat	aaccgngggg	tttaaggggg	840
ctcccatggn	gggcataatn	cataaccnga	ggaaaaattn	naaaattaag	gnaantattt	900
ttaaaaaatt	ncctatatatt	cccaaaacct	aacaactact	ggtaaaaatn	ttggaccggn	960
tccccctatt	ntnggttaan	ggccccacct	ttgggnaaaa	ccggggtnaa	aaattggggc	1020
ctaa						1024

<210> 54
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

ggagnnnnnn	ttnggttttg	gccctctaga	tgcagtctcg	agcggccgcc	agtgtgatgg	60
atatctgcag	aattcgccct	ttcgagcggc	cgccccggca	ggtacttttt	tttttttttt	120
tttttttttt	ttacatttat	gcatacttat	cactaacacc	ctaataatca	cagactagtg	180
cacagatcaa	gatgttaaca	gttaattggt	gttgggtgtt	gggaatatgt	gtgaattttc	240
tttactgaat	ttccaaagtt	ttgtatgagt	atgtattata	tttgaatgg	aaaatacata	300

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cataaaatttt attacaaaaa caccaaagat tatttaagga atttgagaca aaatatttta 360
ccaaattccc acaatgacaa cactatttta gttattttcc acatcttttc atttaagact 420
ttatgcacac atatttaaca ctgttatcac aagcgtgtgc actgaaacaa gatagaggaa 480
acagatcaag atggttagcag tagttgtag gtgttgggaa tataggtaat tttttaaata 540
aatttacttt attttctaatt ttttctctg ggtatgtatt atgcacacca atggagacac 600
acataatata ctgttatcag gacattatta tagggaacat ttgaaaaaat taaagtgaac 660
gtatttaacc ataattccac aaaggtaatg taacagctat tttgaatata cattttgaca 720
cagttataat cataaacctg tgcacagaaa cnagaatgaa cnngattaga ngagagtata 780
tgtctttgga tgggtggggat atgaattttt cctncacttt tctggatttt nccagtgtgn 840
gaaaaatgag ttccaaaata tggtcncaat ggnaaatgng ancntnaacc ttttagtanc 900
ccttnccctn aggaacatttt caggaaantt tannaaaata anggctcaac ttttaggcct 960
acannancaa ccccncaaaa ggnttttgac tntttanccn tntatatttt taaccggttt 1020
taan 1024

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<210> 55
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

```

<400> 55
gnngnnnnnnn ttaactccag cttggtaccg agctcggatc cctagtaacg gccgccagt 60
tgctggaatt cgcccttagc ggccgcccgg gcaggtagct cacatgggaa acatgggaag 120
taaaaccacc tgaggagcct cttgatggcg agtcaggctg ttccctcgaag agtaggctgt 180
gactgccaaa ctttgttagt taaggagtat ttataatgat ctttgaggaa actgcaactg 240
acaattgagg gaaaaaaatg ttagttcatg actgcaaaat acatgacaga atcacaaaaa 300
ctattttaca agtttaaaaa acaaacctga tgctgatgca tggcaggcga accccaaagt 360
ggggcttagc ctgcaagggt tcttggtctc acccaggaaa ggattcaagg gcaagccagt 420
ggtaagggtg aagaaaacac ctttatcaaa gcaacactgt tacagtcct gtgggtcac 480
agctcagtga ctgctcccag ggttgcccca taggcagggt gccgagagta gcagctgagc 540
ccagttttgc agtcatatgt atacctactt ttaattacat gcagattcag ggtggtttg 600
cgcagaaatt gttaggaaaa gggtggtaac ttttgggtca tcaggtcatt gccgcttaa 660
gtggtggtta tgcctgagtt ttgccatggc aatggtaaac tgacaaggca cgtgcttgg 720
tgtgtcttac agaaagctgc ttncgctctg nccttggtta nctagccctc gancntttgg 780
ttgtaaatga accaagagaa gtcaccggcc cttggcgttt tcttcccaga agtacccttg 840
ggccgggaan cagcgttaag ggccaaattc ttgcagatat ccatnacact tggcnggncc 900
gnttcancct tgcattttta aaggggcccaa tttgncctt taaanggagt cgantaccaa 960
ttnnnntggg ccgcgtttta acaacgtnnn ggacttggga aaaanccctg ggttacccca 1020
antt 1024

```

<210> 56
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

```

<400> 56
gnagnnnnnn ttnngttnc a gantgggccc tctagatgca tgctcgagcg gccgccagt 60
tgatggatat ctgcagaatt cgcccttagc gtggtcgcgg ccgaggtagt tctgggagaa 120
aacgccaaag ccgtgactct cttgtctatt tacaaaacaa agatcgaggg ctagctaaac 180
aaggacagag cggaagcagc tttctgtaag acacaccag cagcgtgcct tgtcagttta 240
ccattgccat ggcaaaaactc aggcattacc accactttca gcggcaatga cctgatgacc 300
caaaagttac cacccttttc ctaacaattt ctgcgcaaac caccocctgaa tctgcatgta 360
attaaaagta ggtatacata tgactgcaaa actgggctca gctgctactc tcggcacccct 420

```

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gcctatgggg caaccctggg agcagtcact gagctgtgac cccacaggag ctgtaacagt 480
gttgctttga taaaggtgtt ttcttccacc ttaccactgg cttgcccttg aatcctttcc 540
tgggtgaagc caagaaccct tgcaggctaa gccccacttt ggggttcgcc tgccatgcat 600
cagcatcagg tttgnttttt aaacttgtaa aatagttttt gtgattctgt catgtatttt 660
gcagtcataa actaacattt ttttccctca attgcaagtt gcagtttctt tcaaagatca 720
ttataaatac tccntaaccc tacaaagttt ggcaagtcac agnctactct ttgaggaaca 780
agcctgactt accatcaaga agcttccctn anggggntta cnttccatgg tttcccatgg 840
tgaaggancc tgncccgggc ggccgnttaa gggcgaaatt caacacactt gggngggcgn 900
tnnnntaang gatccnaact tggganccaa annnttgggg naaannatgg gnnnnnaact 960
ggnnnccggg ggggaaaatg gtatnccgnt tccaatttcc ccncnanntt tnnaancccg 1020
gaan 1024

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<210> 57
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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```

<400> 57
gngnnnnntt nantnaacgc cagcttggtg cggagctcgg atccctagta acggccgcca 60
gtgtgctgga attcgccctt agcgtgggtcg cggccgaggt actcatcact gacttgaagc 120
ttagtatctg gcttccctaa ggatgtaact ttcatgtaac agattaataa cttatatgaa 180
aaccaacaca accatatgtt tagggctgga aagggccatg acgcctgggtc atttttccctg 240
ttttaccctta ctcttatgtg tgtcacactt catcaattcc ggaaacagtt tctggagatc 300
tcctcattac ctcttttaca atcacctcac tccagcatgg tgtctgttac ctcttcccac 360
ttgtgacaat gtctagtaag gtccactctc tccatgtgtt gatgaccact tattacaacc 420
ctcagaatag gggacagtgg tgtgcccctt gcaatacaat ggtttctatc tcctgatact 480
tttattacac ctctagcagg atgtcttctg atccctcctta ttgatttttc cctcacgatg 540
atgaacaatt atctcccgtt actcacctag cagtatctaa ctgtccctaa cacagcatgt 600
gggaatgccc tcaatacggg ggatgctgnt aactttcttc ctcccccctc ggcaatggcg 660
gtgacttaca atgaaccata atggccacat ttcccaactg natttttgga cctcttctgn 720
ccccttcttt ctagganccc agttaaaaaa aaaaaaccaa aactagcccc aatgncctgt 780
atgcccatta atcacttacc cagggtctgan cctncatta aanttttgat gggatctctt 840
tggnntccca attggccggt naacccaagn ctgntggatt cccaanttnc cccattgntt 900
taatgcgggt cccttaanca ncccttggtt actggacctg gccngggngg gcccttttaa 960
aaagggcaaa ttntggagaa aatnccctnc acttgggggg ccnttnnaac atggcnnntt 1020
aang 1024

```

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<210> 58
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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```

<400> 58
gngnnnnntt nngtttgccc ctctagatgc atgctcgagc ggccgcccagt gtgatggata 60
tctgcagaat tcgccccttc gagcgccgc ccgggcaggt acagtagcca agggtgacta 120
aggaaccgca tgaagcaatg tgggaaattg ggaatcagca gacattgggt taacgggaca 180
atggggagcc aagagatacc atcaaaattt aatggagggg tcagacactg tgttagtgat 240
taatgggcat caacagacat tgggctagtt tttgtttttt ttttttaact ggggtcctag 300
aaagaagggg acagaagagg ttccaaaata cagttgggaa atgtggacat tatggttcat 360
tgtaagtcac cgccattgcc tgagggggaag gaagaaagtt aacagcatcc accgtattga 420
gggcattccc acatgctgtg ttagggacag ttagatactg ctagggtgagt aacgggagat 480
aattgttcat catcgtgagg gaaaaatcaa taaggaggat cacaagacat cctgctagag 540

```

```

gtgtaataaa agtatcagga gatagaaacc attgtattgc aggggggcaca ccactgtccc 600
ctattctgag gggttgtaata agtgggtcatc acacagaatg gagagtggac cttactagac 660
attgtcacaa gtgggaagag gtaacagaca ccatgctgga ntgaggtgat tgtaaaagag 720
gtaatgaaga gatcttccag aaactgtttc cggaattgat gantgtgacc cnccttaaga 780
ntaaggtaaa acaggaaaaa tggncagggc gtnatnggcc cttttcagnc cttaaccttt 840
attgggtggg tggtttcata taagttaant aatctggtn cctgaaagt tccttccttt 900
anggaaaccc gantcctaan cctttnaagt ccnnggatga gacccttgn ccgggaaccc 960
cccttaaggg cgaaattccn ncccacttgg gngggccntt ncttaaggg acccaacttg 1020
ggcc 1024

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```

<210> 59
<211> 1024
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 59
gagnnnnnt taactccgc ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt 60
gctggaattc gcccttagcg tggctcgggc cgaggtacct ggttttcttt caactcttca 120
atttcccatc ttccatcgta tattgaaatt tcttcacca tgtaactttt ctttgccttt 180
gataagaccc atccagccaa cttccacta tcaaaagttt ctgcaaaaata tacttctcct 240
ataggttgag gtgtcttata tttaatctct gaggaagtt cactttcatt aacatcaatt 300
tcttctgaat tttcttcaaa gtcttcgcgc tcaacatcat catccataaa ttctgcatta 360
attgagatga acagaagacc caaacataac caaaaggctt ggaaatgcat attgattatc 420
tctcttgccg cctgttttcg gcagtgcag ctcagatgac caagtctgtg ccacttggtc 480
cccgctctc ttcagaccag tccccccgc gtacctgcc gggcgccgc tcgaaagggc 540
gaattctgca gatatccatc aacttgccg ccgctcgagc atgcatctag agggcccaat 600
tcgcccata gtgagtcgta ttacaattca ctggccgctg ttttacaacg tcgtgactgg 660
gaaaaccccg gcgttaccca acttaatcgc cttgcagcac atccccctt cgccagctgg 720
cgtaataacg aaaagccgc accgatcgcc ctttcacag ttgcgcagct gaatggcgaa 780
atggaccccn cctgtancg gcgcattaan ccncngcng gttntgggg taccccaac 840
ggggaccggt acactttgnc aagggcctaa cgnccggttc ntttgggttc ttnccctttn 900
ttntngcac gttngnccgg ntttcccg naagctttaa aatngggggc ttcccccttt 960
anggtcccn aataaagggt ttacggganc ttgaaccccc aaaaaacttt gnnttnaggg 1020
ggga 1024

```

```

<210> 60
<211> 1024
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 60
gnnnnnnntn ngttncngaa ttgggccctc tagatgcatg ctcgagcggc cgccagtgtg 60
atggatatct gcagaattcg ccttttcgag cggccgccc ggcaggtacg cgggggggac 120
tggctctgaag agacgcgggg accaagtggc aacgacttgg acatctgagc tgtcactgcc 180
gaaaacaggc cgcaagagag ataatacaata tgcatttcca agccttttgg ttatgtttgg 240
gtcttctgtt catctcaatt aatgcagaat ttatggatga tgatgttgag acggaagact 300
ttgaagaaaa ttcagaagaa attgatgtta atgaaagtga actttcctca gagattaaat 360
ataagacacc tcaacctata ggagaagtat attttgcaga aacttttgat agtggaaagt 420
tggctggatg ggtcttatca aaagcaaaaga aagatgacat ggatgaggaa atttcaatat 480
acgatggaag atgggaaatt gaagagttga aagaaaacca ggtacctcgg ccgcgaccac 540
gctaagggcg aattccagca cactggcggc cgttactagt ggatccgagc tcggtaccaa 600
gcttggcgta atcatggtca tagctgtttc ctgtgtgaaa ttgttatccg ctcacaattc 660

```


cacacaacat	acgagcccg	aagcataaag	tgtaaagccc	tgggggtgct	aatgagtga	720
ctaactcaca	ttaaatagc	tgcgctcact	ggcgcgtt	cagtcnggaa	accctgtcgt	780
gccagctgca	ttaatgaat	ggccaacg	ccgggggaaa	aagcggnntg	cgtattgggc	840
gctcttccct	ttcttgntta	cttgactcgc	ttgggcttcg	tcgttcggct	gcggcnaacg	900
gnatcagctt	actcaaang	gggaaatacg	gtantcccca	gaatccnggg	gattaccccn	960
ggaaaagaac	ctgtgagccn	aangggcccc	aaangggccn	gaaccntaaa	aaangggccc	1020
tnnn						1024

<210> 61
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

gggnnnnnnt	tncttacacg	cccgttgg	accgagctcg	gatccctagt	aacggccgcc	60
agtgtgctgg	aattcgccct	ttcgagcggc	cgcccgggca	ggtacaaaatg	gttttatgtc	120
accaattttg	ctgcaagaat	gggaactgct	tttaaactcg	taaatagctc	ttaacatttg	180
ttgtatgcac	tcctttctta	ctatggctgt	caacacttgt	gtagggttta	atttctaaat	240
tgttggcatg	ttctttttct	caggctattc	agaagtaaca	acatttttca	tttcagacat	300
gcaatcacct	attaatgatg	aaatatttta	ccactttggg	aatattttaat	tagtttagtc	360
atggagaata	cttccacat	tttaagattt	ttcaaatac	actgtcattt	ctatttttagc	420
attttatcaa	attattgctt	ttttatttta	taataaggct	taagacagat	tatagacctc	480
cttaagagat	gagtttcttc	ttctaaaaat	gcatgttgat	agaggactat	ttaggcta	540
cggagggaatc	attaagaaa	aaagttttaa	cactgtttat	ccctatctgc	tttccttgca	600
ctttttctgt	gaaaaatatt	ttctgtttgc	aaaatcttcc	ctgagttctg	aaccagcac	660
catcagtacc	tcggccgcga	ccacgctaag	ggcgaaattc	gcagatatcc	atcacactgg	720
cggccgctcg	agcatgcac	tagaggcccc	aattcgccct	atagtgaatc	gtattacaat	780
tcaactggccc	gcgnttttac	aacgtcgtga	ctgggaaaac	ccctgcgtta	cccaacttaa	840
acgcctttgc	agcacatccc	ccttttgncc	aantgcgtaa	ttaccaaaaa	ggcccgnaac	900
gaacggccent	ttcccaaaag	tggcncaacc	ctgaaatggc	aaatggggcc	cccccttgaa	960
ccggngccent	taanccccc	nccgggnntt	tnggggtccc	cccacggnga	nccgttaaac	1020
ttgc						1024

<210> 62
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

gnagnnnnnn	ttngnttgg	gcctctaga	tgcagtctcg	agcggccgcc	agtgtgatgg	60
atatctgcag	aattcgccct	tagcgtggtc	gcggccgagg	tactgatgg	gctgggttca	120
gaactcaggg	aagattttgc	aaacagaaaa	tatttttcac	agaaaaagt	caaggaaagc	180
agatagggat	aaacagtggt	aaaactttct	ttcttaata	ttcctccgat	tagcctaaat	240
agtcctctat	caacatgcat	ttttagaaga	agaaactcat	ctcttaagga	ggtctataat	300
ctgtcttaag	ccttattata	aaataaaaaa	gcaataattt	gataaaatgc	taaaatagaa	360
atgacagtga	tatttgaaaa	atcttaaaat	gtgggaagta	ttctccatga	ctaaactaat	420
taaatattcc	caaagtggta	aaatatttca	tcattaatag	gtgattgcat	gtctgaaatg	480
aaaaatgttg	ttacttctga	atagcctgag	aaaaagaaca	tgccaacaat	ttagaaatta	540
aaccttacac	aagtgttgac	agccatagta	agaaaagagt	gcatacaaca	aatgttaaga	600
gctattttaca	gatttaaaag	cagttcccat	tcttgagca	aaattgggtga	cataaaacca	660
ttgtacctg	ccccgggcg	ccgtcgaaa	gggcgaattc	cagcacactg	gccgnccgtt	720
acttagtgga	tccgagctcg	gtccaagcct	tgcgtaaatc	atggnnccata	ntggttcctg	780

nggtgaaatt	ggtatccccg	tcacaatttc	ccccancat	acgaanccgg	aagccntnaa	840
gngtaaaaanc	cctgggtggc	ctaataagtg	aactaactca	catttaaagt	cgtgcgctta	900
ctggcccggt	ttccaatcng	ggaaanctgt	cgngcccact	ggntttaang	aatcggccan	960
gccccnnggg	gaaaaaagng	gttgcnntatt	gggccctttt	tcggttcctt	ggttantgga	1020
atcn						1024

<210> 63
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 63						
gagnnnnnnnt	taacnccccg	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggtcgcggc	cgaggtacat	tgacttcatt	actaaagaac	120
aaaaatgttc	atttttgtcc	cagtaaatgt	agactgcttg	tacttttttt	tttttttttt	180
tttttttttt	ttattaaaaat	actgagtttt	atttcacatg	tatatattttg	tctccccacc	240
atttccatgt	ctgaccaccg	ctactactat	gtcctatcat	aacattccat	acatacttaa	300
aaccaagcaa	aggggtggagt	tccatcttta	aaaactaaac	ggcatttttg	acaacacatt	360
cttggcaata	naacctggac	aacattttatc	aaacacggta	gggaaagtcc	tcactctgca	420
ttataaaaag	gacagccaga	tatcaactgt	tacagaaatg	aaataagacg	gaaaattttt	480
taacaaattg	tttaaaactat	tttcttaaag	agacttcctc	cattgccaga	natcttgaat	540
agcctcttgg	tcagtcatcc	ggaagcaatt	cttcacataa	ttgatgaatt	tggtttccac	600
tttgggaaga	gaaccacctt	tttctatact	tgcttgcat	tttgctttaa	tgnccttctac	660
agaactaggt	cccttttgng	ttttaggagt	tttttctgn	ttcttgaagg	attcttggcc	720
ttttgancct	ggggttgaaa	ganggnnttg	agtcttttca	ttctgaattg	acttttgggc	780
atttttggct	ggagnatctc	ggatagattt	cttcactggg	gctttttctt	nagntttcct	840
catatcaaaa	tcntcatcat	catcancttt	atnaanatcc	cctttaatna	anatcggnat	900
tnatntttat	tnagcngcaa	ggtttacttt	ttttctgggg	gaanctttgt	tanccctttt	960
cagggggcaa	aaccgggttt	ccaaaaatnc	ccttaanaat	ttnccaaanc	cncncncntt	1020
ttaa						1024

<210> 64
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 64						
ggagnnnnnn	ttnggtttcc	gaattggggc	ctctagatgc	atgctcgagc	ggccgccagt	60
gtgatggata	tctgcagaat	tcgcccttag	cgcccgcccg	ggcaggtaca	gccaacgggt	120
tcctttgggg	gctttgaaat	aacaccacca	gtggtcttaa	ggttgaagtg	tggttcaggg	180
ccagtgcata	ttagtggaca	gcacttagta	gctgtggagg	aagatgcaga	gtcagaagat	240
gaagaggagg	aggatgtgaa	actcttaagt	atatctggaa	agcggctctg	ccctggagggt	300
ggtagcaagg	ttccacagaa	aaaagtaaaa	cttgctgctg	atgaagatga	tgacgatgat	360
gatgaagagg	atgatgatga	agatgatgat	gatgatgatt	ttgatgatga	ggaagctgaa	420
gaaaaagcgc	cagtgaagaa	atctatacga	gatactccag	ccaaaaatgc	acaaaagtca	480
aatcagaatg	gaaaagactc	aaaaccatca	tcaacaccaa	gatcaaaagg	acaagaatcc	540
ttcaagaaac	aggaaaaaac	tcctaaaaca	ccaaaaggac	ctagttctgt	agaagacatt	600
aaagcaaaaa	tgcaagcaag	tatagaaaaa	ggtggttctc	ttcccaaagt	ggaagccaaa	660
ttcatcaatt	atgtgaagaa	ttgcttcogg	atgactgacc	aagaggctat	tcaagatctc	720
tggaatggg	agaagtctct	ttaaagaaat	agttttaaacc	atttggtaaa	aaattttccg	780
tcttatttca	tttctgtacc	agttgatatc	ctgctgtcct	ttttataatg	cnaagtggag	840
aactttccct	accggtttgg	ataaatgttg	gncaggttct	attgcccaag	aatgtgtgnc	900

```

ccaaaatgcc cgntagtttt tnaagatgga acttcacccn tttgcttgnn ttttaagtatg    960
nntngaangt ntgatnggac cntatnntna ccgnggncaa ccttggnaaa tgggtggggag    1020
acaa                                         1024

```

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<210> 65
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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<400> 65
gggnnnnnnt aactnnacgc ccgcttggtg cggagctcgg atccctagta acggccgcca    60
gtgtgctgga attcgccctt agcgtggctg cggccgaggt actctgctga tctctgcctt    120
gtaatggaaa tgtttcattc attaatgtta ttgatatggt tgcactatgt ccgtaatttt    180
gctttttgtg tatctgtcta atgtttttta ttctcttttt tctctttttac tattttcttt    240
taaatgaagt aaatagttcc taacgtagta ttttattttc ttaaaataaa tcaaactcac    300
ttataaaata tatttcatat tactttctta tcgattgctg tatgccttac aacatacatc    360
ttatcagact caacatttat agtaacataa atccattgag acatagtaac attaatcttt    420
tatagggtcta tttattctac ttattcaata attgttatat atatatata tctacatggt    480
acaaacacaa aaatatattg ttataatgct tgtttttatg taattttatg tcttttaaag    540
aacatgagag aagaaaaggaa agcaaagtaa ctattagcat tgttatgtta acattattct    600
ttacaatttc tgggtctctt catttttttc ctggtgattc aagttgtatc ttagtgcacat    660
ttcatttctt taatacaact ttgctccaat tatttctttt gtgctcttaa tgtcaaatat    720
attaagtttt gnttgcatca taggctcaac actattatac atatatgggt ttatgcattt    780
attttgaatt aagagaaaat aaaaatatgc aatttaattg cttatatact attcatataa    840
ttaccctcta tgagggttnc ttatatatgn attccaacn tatttataaa ntccaaanta    900
cctggtangt gccnaaaggc tcctaagcct attagcccg aaaaaaatc cctgggtant    960
tccttggnaa gggagggttg attgccacca acctntttta natnggggtg ggttttaata    1020
aacc                                         1024

```

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<210> 66
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 66
ggagnnnnnn ttgngtnngg gccctctaga tgcattgctg agcggccgcc agtgtgatgg    60
atatctgcag aattcgccct ttcgagcggc cggccgggca ggtactccag cctgggtaac    120
agaggggagac tctatgccaa acaaacaaac aaacaaacaa acaaacaaat gagaccagaa    180
agcaatgaga tgaaatgttc aaagtgtctg aagaaaaaaa aaggtcaacc aaaagtctta    240
tatccagaat atttttcaaa gtataaaagc aaaatacatt ctacagataa aaaaacaaaa    300
caaactaaaa gagtttgttg ctatcatacc taccttacia gaaatactca gtgatttttt    360
tcaggctaata aggctaggag catttggcac ctaacagtaa tttgaattta tatatatggt    420
tgtatacata tatatggaac actcatagag gtaattatat gaatagttat ataagacatt    480
aaattgcata tttttatttt ctcttaattc aaaataaaatg cataaaacaa tatatgtata    540
atagtgttga gcctataatg caaacaaaaac taatatattt gacattaaga gcacaaaaga    600
aataattgga gcaaagtgtg attaaagaaa tgaaatgaca ctaagatata acttgaatca    660
acaggaaaaa aatgaagaga accagaaatt gtaaagaata atgntaacad aacaatgcta    720
atagttactt tgctttcctt tcttctctca tgnctcttaa aagacataaa attacataaa    780
aaccaagcat tataacaata taattttggg tttggaacat ggtagatgta tatatatata    840
ccattatttg ataagtagaa taaataggac tattaaggaa ataatggtac tatgggtcaa    900
tgggantaag gtacctataa nggtgagcct gganaggaag natgttgnaa ggcttccggc    960
aatcggttta gaaagtantt tggaaatata ttttnatnaa gnggggttga ttaatttagg    1020

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aaaa

1024

<210> 67
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 67
gagnnnnnnnt taactccagc ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt 60
gctggaattc gccctttcga gcggccgccc gggcaggtag tttttttttt tttttttttt 120
ttttggaaaa tgagattttt gactttaaca aaacaaatag agattgaatt taccaaatat 180
tgataattca tgtanaacgg gtgccacaga ttttaaagta tcaaaaccaa gagggcatca 240
caaaataaac tttggtgaaa aatatcttca tcaaagaaga aaatatgaga agagtagtcc 300
ttatgcagtg aggagaaata tatttggtaa agtaaatatg ggtagtagat actgaatcta 360
tagatagcat atattccaaa tgttttttag ggaatatcaa atcagatgat gcttanatgt 420
tatagtaata tcaacttatct catttggaat gaaatttaat gttttttaat aaatagcaaa 480
ttttcatttt tcaactacct ttataaaaaca aattaaatat ttagagtata actgatcata 540
actaacatca ccttgcattt actaataaat actcctaata cattttggtt attattggaa 600
tttatatcct tataatttta cctgctagaa attagtgacc ttgtggcatt atgtttaaag 660
tttacatttt cccagtgatg tgaacagtat ttatacntaa aatggatata tgnccaatga 720
atagtaacca tgtttggtgg tttaaaaacc gnacatggtt tagtttgaca ttggcatgtc 780
tcttcagaaa ttnaaaagggt atcntttaag ggatggcttt tnggaaatca ttaataaaact 840
accntctggg aaaangaatn ccaatttcaa gaagctacct aantagaact cagaccccn 900
gggcagggtt ttgggnanaaa angctttcaa ttncaaattn nttntccgnn gnaaaccgaa 960
ngggaccctt annnngnttg accncctttc cngnaaactg gtttttaaat aaaaatttcc 1020
gnnc 1024

<210> 68
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 68
gnngnnnnnn ntannnttga attgggccct ctagatgcat gctcgagcgg ccgccagtgt 60
gatggatata tgcagaattc gcccttagcg tggctcgccc cgaggtagct agtagatcta 120
ctgagattaa acgggacctg tttggagcag aaccttttga ccattttaac tgtggagcag 180
cagatttccc tccagatatt caatcaaaat tagatgagat acaggagggg ttcaaaatgg 240
gactaactct tgaaggcaca gtattttgtc tgcacccgtt agacagtagg tgctgacatc 300
aagaacaaga aatcctgatt catgttaaat gtgtttgtat acacatgtca tttattatta 360
ttactttaag ataggatta ttcatgtgtc aatgttttta aatattttaa tattttgaaa 420
atthttctag ttaaatttcc tcaccttcac tattgatctg taatttttat tttaaaaaca 480
gcttactgta aagtagatca tacttttatg ttccctttctg ttctactgt agatgaattt 540
gtaattgaaa gacatattat acaaaatcct gccttgtgtc tgagttctat ttagtttagca 600
tcttgaaatt tgtattcatt ttccagatgg ctagtattat aatgatttcc caaaagccat 660
accttaaga taacttttta aattctgaag agacatgcca atggcaaaact aaacatgggtc 720
tggttttaaa ccaaccaaca tgttactatt cattgggaca gatatcattt tatggataaa 780
tctggtcaca tactggggaa atggaaactt taacataaat ggccccangg cactaaattc 840
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ttattntaaa ngcnngggga ngtanntttg acagntnncn ctaaaanttt aaatgggttn 960
ttaaaggtn gaaaaaanga aaaattgctt ttttttnaaa acctttaant cntttccnag 1020
gggn 1024

<210> 69
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 69
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 ccagtgtgct ggaattcgcc ctttcgagcg gccgcccggg cagggtactcc ggtcgggtgct 120
 agcagcacgt ggcattgaac attgcaatgt ggagcccaaa ccacagaaaa tggggtgaaa 180
 ttggccaact ttctattaac ttatgttggc aattttgccca ccaacagtaa gctggccctt 240
 ctaataaaaag aaaattgaaa ggtttctcac taaacggaat taagttagtg agtcaagaga 300
 ctcccaggcc tcagcgtacc tcggcccgca ccacgctaag ggccaattct gcagatatcc 360
 atcacactgg cggccgctcg agcatgcac tagagggccc aattcgccct atagttagtc 420
 gtattacaat tcaactggcg tcgttttaca acgtcgtgac tgggaaaaacc ctggcgttac 480
 ccaacttaat cgctttgcag cacatcccc tttcgccagc tggcgtaata gcgaagaggc 540
 ccgcaccgat cgcccttccc aacagttagc cagcctgaat ggccaatgga cgcgccctgt 600
 agcggcgcat taagcgcggc ggggtgtgtg gttacgcgca gcngtgaccg ctacacttgc 660
 cagcgcctca cgcccgctct ttcgctttct tcccttctct tctcgccacg ttcgcccggct 720
 ttccccgtca agctctaaat cgggggctcc ctttttaggt tccgaattan tgctttacgg 780
 accttgacc caaaaaactt gantanggtg atgggtcacg taatggggcc atnggccttg 840
 anaagacggt ttttcgccct ttgacngttg gagtccacgt tctttaaaag gggactcttg 900
 gttccaaact ggaacaacn nttaancctt atttngggct aatccttttg aattaatnag 960
 ggattttgac caatttgggc ccttnggtta aaaaaagggg cttgntttta ccaaaaattt 1020
 aacc 1024

<210> 70
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 70
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 atatctgcag aattcgccct tagcgtggct gccggcgagg tacgctgagg cctgggagtc 120
 tcttgactcc actacttaat tccgtttagt gagaaacctt tcaattttct tttattagaa 180
 gggccagctt actgttgggt gcaaaattgc caacataagt taatagaaaag ttggccaatt 240
 tcacccatt tctgtggtt tgggctccac attgcaatgt tcaatgccac gtgctgctga 300
 caccgaccgg agtacctgcc cggcgggccg ctcgaaaggc cgaattccag cacactggcg 360
 gccgttacta gtggatccga gtcggtacc aagcttggcg taatcatggt catagctgtt 420
 tcctgtgtga aattgttatc cgctcacaat tccacacaac atacgagccg gaagcataaa 480
 gtgtaaagcc tggggtgcct aatgagttag ctaactcaca ttaattgcgt tgcgctcact 540
 gcccgccttc cagtcgggaa acctgtcgtg ccagctgcat taatgaatcg gccaacgcgc 600
 ggggagaggc ggtttgcgta ttgggcgctc ttcgcttcc tcgctcactg actcgctgcg 660
 ctccgtcggt cggctgcggc gacggtatc aagctcactc aaaggcggtg atacngttat 720
 ccacagaatc aaggggatc gcaggaaaga acatgtgaac caaaaggcca caaaaggcca 780
 ggaacccgta aaaaaggccg cgttggttgg cgtttttcc atangcttcc ggcccccttg 840
 acgagcatta ccaaaaatcg acgctcaagt tcaaagggtg cgaaancccg accggactnt 900
 taagaatccc agcgttttcc cctggaactt ccttggggcg tttctgtgt ccaaccttgc 960
 cgttaccgga tacctggncc gentttttcc ctttngggaa accngggcnt tntcaaaant 1020
 taac 1024

<210> 71
 <211> 1024

<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 71

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tctgatttta	atgcttcgtt	aacttcaaaa	ggaactggta	gagttcagaa	ggtagagctgt	180
tgttttttcta	aaactcttcc	caggaagggg	acattgacac	ttgaattttt	gtcacctttt	240
tcctcattag	aaggaaaagta	gaaagcctta	ctgtaggatt	tttaaaaaaa	aatccatctc	300
accccatatt	ggtcttaaat	aagtatagac	taattaacct	aagctacctt	taacaacgta	360
gaatttagat	gggttcatat	atgtgagaaa	aacctgaata	taggacaggg	gtcctacttt	420
tttccccacc	tctgtcgccc	aggctagagt	atagtgggtg	gatcttggcc	cactgcaacc	480
tctgcttctc	aggttcaaagt	gattctcctg	cctcagcctc	ccaagtagct	gggattgtaa	540
gagtatgcc	ccagccccag	ctactttttg	tattttttagt	agagacaggg	tttcatcatg	600
ttggccagga	tggtctctta	actcctgccc	tcaagtgatc	caccagagag	gagatcctcg	660
gcctccccaa	gtgctgggat	tataggcatg	agccaccgtg	cccagcctac	tttctaatta	720
attaaaaaaa	aaaaaaaac	ttcccaaagt	agctgataaa	aaactgacgt	gaggctgctt	780
tgcttcaat	aatacctagt	tttcagctgt	tccaaactcg	ttccaaattg	gaaattanct	840
ggaacnccac	tacagtaatc	ttcanggaan	gggaaaatta	ggccttaaaa	gaatccccag	900
aaagttcanc	atnggnancc	tgncnnggcc	ggnccggtca	aaangggcna	aatttgccaga	960
aattccatna	cacttggcgg	gccgttcgan	catggctttt	aangggccca	attgnccctt	1020
aaag						1024

<210> 72
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 72

gnagnnnnnn	ttnnnttcg	aattggggccc	tctagatgca	tgtctgagcg	gccgccagtg	60
tgatggatat	ctgcagaatt	cgccctttcg	agcggccgcc	cgggcaggta	ccatgctgac	120
ttcttggtat	cttttaaggc	ctaattttcc	cttccttgag	attactgtag	tgtgttccag	180
ctaatttcta	tttgaaaacg	agttggaaca	gctgaaaact	aggtattatt	gaaggcaaaag	240
cagcctcacg	tcagtttttt	atcagctcat	ttgggaagtt	tttttttttt	ttttaattaa	300
ttagaaagta	ggctgggcac	ggtggctcat	gcctataatc	ccagcacttg	gggaggccga	360
ggatctcctc	tctggtggat	cacttgaggg	caggagttaa	gagaccatcc	tggccaacat	420
gatgaaaccc	tgtctctact	aaaaatacaa	aaagtagctg	ggcgtgggtg	catactctta	480
caatcccagc	tacttgggag	gctgaggcag	gagaatcact	tgaacctagg	aagcagaggt	540
tgcatggggc	caagatcaca	ccactatact	ctagcctggg	cgacagaggt	ggggaaaaaa	600
gtaggacccc	tgtcctatat	tcagggtttt	ctcacatata	tgaacccatc	taaattctac	660
gttggttaaag	gtagcttagg	ttaattaaagt	ctatacttat	ttaagaccaa	tatgggggtga	720
naatggattt	tttttttaaa	atcctacagt	aaggctttct	actttccttc	taatgaggaa	780
aaaggtgacc	aaaantcaag	tggcaatggc	ccctttcttg	ggaaaagttt	anaaaaacca	840
ccggttanct	tntggaactt	ttacceagtt	cccttttgaa	gttaccgaag	ccttttaaan	900
cagatgttaa	aaaaggaaan	nnnaaaaagt	ncctttggcc	gggaacccnc	ttaagggcca	960
aattccacac	acttgggggg	ccgntnccnt	anggatccca	ncttgggncc	aaannttggg	1020
gnaa						1024

<210> 73
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 73
gagnnnnnnnt tnactttacac gccngcttgg taccgagctc ggatccctag taacggccgc 60
cagtgtgctg gaattcgccc tttagcgtggc cgcggccgag gtactgtgtt atggcacaga 120
caatgcttgc tttagcgtgc cttgttacat aggtggatgc agagtgcgca cacgggatga 180
tggcaataaa gacctcactc agtcgttggg atgaaggaac taggtaactg cttcaacaag 240
gacggtctca gctctacett atctctcaac agagtgcgca cactgagtgt gagctcagat 300
gtcatcttgt tctcttttaa aattcaccaa attcttttgc acatttttct gttatagaga 360
cacggatata tcttcttcca tagtcacaa agttgctggg atctccagag cctctaaact 420
ttggtatgaa tggagcttca acctctctct ggtaaatagc aatccaatct gtcgtggcaa 480
accacttgtg agtttttata tcaactgacac cattcttttag atttccaaat ctcttgatca 540
aatccacctg cagcaggttc cgtagaaggc ccttgagatc tgaactgaag tgggatggga 600
atcggacctt tccagaaaca atcttttcat aaatctgaat tggttggtct gcaaagaatg 660
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tattgnagcc cttgctgaga attattttctg gagccaaata cctctggagt tccacataat 780
ggccaagttc tgcctttaac tcttttggca aacccccaaa gtctgtgacc cgggatatag 840
ccctgatggg ccaattttaag aagaattttc anggggttaa aaactctggt aaatgaaggc 900
taanggaaat ggaggnacct tttttttttt nnnnnnnntt ttttttttaa acnttgtaaa 960
agcccaaaat tttggctana anttantttc aaagnttnaa accntttcca aatttttttt 1020
taat 1024

<210> 74
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 74
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gatatactga gaattcgccc tttagcgtgg cgcggccgag aggtacagtc aactgcattt 120
ttctctggtg accaagcttc cactgacaag gaagaggatt atattcgtaa tgcccatggt 180
ctgatatctg actacatccc taaagaatta agtcatgact tatctaaata cttaaagcct 240
ccagaacctt cagcctcatt gccaaatcct ccatcaaaga aaataaagtt atcagatgag 300
cctgtagaag caaaagaaga ttacactaag ttttaacta aagatttgaa gactgaaaag 360
aaaaatagca aaatgactgc agctcagaag gctttggcta aagttgacaa gagtgggatg 420
aaaagtattg ataccttttt tggggtaaaa aataaaaaaa aaattggaaa ggtttgaaac 480
tttggaaaata aaatctagca aaaatatttg ctttttacat gttttaaaaa aaaaaaaaaa 540
aaaaaaaaaa aagtacctcc attcactaga cctcatctac agagatctaa aacctgaaaa 600
tctcttaatt gaccatcaag gctatatcca ggtcacagac tttgggtttg ccaaaaagatg 660
taaaggcaga acttggacat tatgtggaac tccagagtat ttggctccag aaataattct 720
cagcaagggc tacaataagg cagtgggatt ggtgggcatt aggagtgcta atctatgaaa 780
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gttcttggaa ngncggaatt cccattcccc ttcagntcna actcaagggc ccttttacgg 900
aancctggtt gcanggggga ttgatccagg anaatttga aatcttaaag aaaaggggnc 960
cgggggtttt aaaaacctcnc aagnggggtt gcccccancg naatgggatt ggtttttccc 1020
ccna 1024

<210> 75
<211> 1024
<212> DNA
<213> Homo Sapien

<220>

<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 75
gagnnnnnnnt taactcccg c ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt 60
gctggaattc gcccttagcg tggctcgggc cgagggtacta tatgtatttt attaaaaatg 120
tggaagatta atctgtttct ctctgaatgt agattttcac caaaacatct cttaaaacag 180
cagggaactca acacttaaaa atgaactaga agagctgggc acagtggctc acgcctgtaa 240
tcccagcact ttgggaggcc gaggcgggca aatcacttga ggtcaggagt tcgagaccag 300
cctggccaac atgggtgaaac cctgtctcta ctaaaaacac aaaaattaac tgggcatggc 360
ggcacacgcc tttaatccca gctactcaag aggctgagggc aggagaatcg ctttgaacct 420
gggaggcaga ggttgcagtg tgctgagatc ataccactgc attccagcct gggcgacaga 480
gcaagactcc acctcaaaaa aaaaaagaag aaaagaaaat agtagtctca gccaggcgtg 540
atggctcaca cctgtaatcc cagcactttg ggaggccaag gtgggcagat cacctgaggt 600
caggagtctg agaccagcct ggctacgtg gcaaaacctc atctctaata aaaatacaaa 660
aattagcttg ggcgtggtgg catgcacctg tcatccagc tatttgggag gctgagacag 720
gagaagtgcg tttgaacctg ggangcagaa aattgcggtg aagctaagat cgacagactt 780
cacttccacc tgggcacaaag anggaactct atctcaaaaa aaaaaaangg aaaaagttagt 840
ctntaagaca ctgggcaaac cttgaaagga attgagcagt cctcactttn ctgnagtcan 900
tttgntnaat gccacatggc tcttttgnaa gaaatttgag agcttttttc taatcccaat 960
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gcct 1024

<210> 76
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 76
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tgatggatat ctgcagaatt cgccttttcg agcggccgcc cgggcaggta ctctttgtgg 120
ctggcttctt tttctgcaca caatgcctat gagaccataa ctaaagtcaa attccatggt 180
cactaaccaa taatggcatc tcaaagaaat tccaacctag agaaattctg atgatgtggg 240
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acctagctta ttgaattcat tgagtccaca ggccagcact ttgcctgact gggcaacag 360
aaatgtccca tcacagccac attgaactgc aacaataatc aaggccttgg gaacatccac 420
ctgcaagaaa aaaatcagaa aaagaaatcc caaatatata attcgtatta gaaaaaagc 480
tctcaaattc tttcaaaaaga gacatgctgc atttagcaga atgactacag gaaagtgagg 540
actgctctat tcttttcagg tttgcccagt gtcttagaga ctactttttc tttttttttt 600
tttgagatag agtttccctc ttttgeccag gctggagtga agtccgtgcg atcttagctc 660
accgcaatct ctgcctccca ggttcaagcg acttctcctg tctcagcctc ccaaataget 720
gggatgacag gtgcattgcca ccacgcccag ctaatttttg gatttttatt agagnatgag 780
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nccc 1024

<210> 77
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)

<223> n = A,T,C or G

<400> 77

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ttttttttac	agaaggctgt	aaagctttat	tgggagaatt	ttaatgaaca	aatttccaac	180
ataggagcag	cctgcatcat	ttcaacgtgc	cttcttttaa	cactgtgatt	gcttttcacc	240
ttcttcaggc	gttttcacct	cctctggatt	tggcgggtcc	atctcctgcc	catcaggacc	300
atcttcacac	tcacacccag	tctgtgggtg	accctgttcc	tggctatgag	cttcaggctt	360
cgcccttga	cctgcanatg	ctccctcacc	ctctccctcc	tgagcagctg	caggatcctg	420
acgttgagtt	gctgggtccc	cttcttcagg	tgttgctggg	tccgcttcat	cactgaactg	480
ctcgggcccgc	ataggcccaa	tcatttcagg	aggctgnacc	tgcccgggcg	gccgntcgaa	540
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gctggcgtaa	taacgaaaag	ccccgcaccg	atcgcccttt	ccaacagtgt	cgcanccctga	780
aagggcnaaaa	tggacncccc	tggaaacggcc	attaaccccc	gcnggnnnnn	gggtaccccn	840
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tcnttttngc	acgttnnncc	gggttttccc	ggnaagctnt	naaatngggg	ggtecccntt	960
tnnggtccna	ataaggcntt	tagggncctt	ggnccccnaa	aaatttgntt	ttnnggggan	1020
ggtc						1024

<210> 78

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 78

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ttgggcctat	gcggcccgag	cagttcagtg	atgaagcgga	accagcaaca	cctgaagaag	180
gggaaccagc	aactcaacgt	caggatcctg	cagctgctca	ggagggagag	gatgagggag	240
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cacattaatt	gcgttgccgc	tcaactgccc	ctttncagtc	gggaaacctg	tcgtgccagc	780
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cttacttcaa	angcgggaaa	tccggttttc	cncggaaatc	aggggaatac	cccnggaaaa	960
gaacttgtga	accnaaaggc	ccnccaaaag	gcccngnaac	cgtaaaaaan	ggccccntnn	1020
nntn						1024

<210> 79

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

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<222> (1)...(1024)

<223> n = A,T,C or G

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<400> 79
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gcttctttct ccaggaaaga tcaaaacgat gcactgcaag gttaacatcc aatttttaat      180
acatttgtgat tgggtccagat agctgcctta tccaaactgcc tcctttggac cacttcatca      240
tgggacagct tgatgcaatc tacttgacaa gacctggaa cccacacccc ctcatggaac      300
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tgaatggcg aaatggacgc gccctgtagc ggcgcattaa gcgcggcggt gtggtggtgg      720
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gtgaggggtc cgtatgggccc attggcctg aaanacggg ttttcgcccc ttgaccctt      960
ggaatcncgt nnttttaaaa ggggactttg gtcccaactg ggacaacnnt taaccctta      1020
ttng                                     1024

```

<210> 80

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

```

<400> 80
gnagnnnnnn tttnnttgng aattgggccc tctagatgca tgctcgagcg gccgccagt      60
tgatggatat ctgcagaatt cgccttagc gtggtcgcg ccgaggtact attcaaacag      120
gttttctgtg gagactttta agtgggtgggt ttaaagcaag caggcaagag ttccctgggg      180
tcacactgtg actgggaggt ggacactggt tccatgaggg gtgtgggggt ccagggtctt      240
gtcaagtaga ttgcatcaag ctgtcccatg atgaagtgg ccaaaggagg cagtgggata      300
aggcagctat ctggaccaat cacaatgtat taaaaattgg atgttaacct tgcagtgcac      360
cgttttgatc ttctctggag aaagaagctg gtgcaaatga caaaaacagt acctgcccgg      420
gcggcgctc gaaagggcga attccagcac actggcgcc gttactagt gatccgagct      480
cggtaccaag ctbgcgtaa tcatgggtcat agctgttcc tgtgtgaaat tgttatccgc      540
tcacaattcc acacaacata cgagccggaa gcataaagt gtaaaagcctg ggtgcctaatt      600
gagttagcta actcacatta attgcgttgc gctcactgcc cgtttccag tcgggaaacc      660
tgctgtgcca gctgcattaa tgaatcgccc aacgcgcgg gaaaagcggn ttgcgtattg      720
ggcgcgtctt nocttntctn gcttacttga ctgccttgc cttcgnccgt tcggcttgcg      780
gcnaagcggg attcagctta cttcaaaggc ggtaataacn ggtattcccc agaaatcagg      840
gggathaccc cnggaaaaga acatgtgaan ccaaaaggcc accaaaaagg ncnnggaacc      900
gtnaaaaaang gccnctttnn nctgngttt ttccattaa gttcccgccc ccttgacagc      960
ctttccaaaa attcganncc ttcaaantnc aaagggggcn aaaacccnc cggggctttt      1020
taag                                     1024

```

<210> 81

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

```

<400> 81
gngnnnnnnnt taacttacac gccagcttgg taccgagctc ggatccctag taacggccgc      60

```

```

cagtgtgctg gaattcgccc ttctgagcgg ccgcccgggc aggtacctca ttagtaattg 120
ttttgttggt tcattttttt ctaatgtctc ccctctacca gctcacctga gataacagaa 180
tgaaaatgga aggacagcca gattttctct ttgtctctct ctcattctct ctgaagtcta 240
ggttacccat ttgggggacc cattataggc aataaacaca gttcccaaag catttggaca 300
gtttcttggt gtgttttaga atggttttcc tttttcttag ccttttctct caaaaggctc 360
actcagtcce ttgcttgctc agtggactgg gctccccagg gcctaggctg ccttcttttc 420
catgtcccac ccattgagccc tccactggac agctcagtaa gcctggccct tcattctgcg 480
ctgtgttctt cctctgtgaa aatccaatac ctcttacctc ctctgcatgc aaagattctc 540
aaggattgtc agacttcaaa cgtaacagca gaaccaccag aaggctctat aaatgcagta 600
gtgaccttct caagctgtca ggtcttttaa taggatttgg gatttaatgc tatgtatttt 660
taaaaggaaag aaataagaag ttgctagttt taaaaatgca tgtcttttaa ccaattcaga 720
atctgcccc aaactttttt naaaagtcaa gacagataaa gctttggggg agacngaaaa 780
aaaaannnnn nnnaaagagt accttnggcc gggaacacgc taangggcaa attctggcan 840
aaatncatta cactggcgcg gcggtttgag cattgcntnt anangggccc aattngncc 900
ataanggggg cgattacaat tncctgggcc gcgtttttaa acgttngaac tgggaaaanc 960
ctgggggtnc cacnttaatg gccttgngga naatccccct tttccccnan tggngnannn 1020
nncn 1024

```

<210> 82

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 82

```

gnagnnnnnn ttnggtttgg gccctctaga tgcattgctg agcgcccgcc agtgtgatgg 60
atatctgcag aattcgccct tagcgtggct gcggccgagg tactcttttt tttttttttt 120
ttttccgtct ccccaaagct ttatctgtct tgacttttta aaaaagtgtg ggggcagatt 180
ctgaattggc taaaagacat gcatttttaa aactagcaac tcttatttct ttcctttaa 240
aatcacatagc attaaatccc aaatcctatt taaagacctg acagcttgag aaggtcacta 300
ctgcatttat aggaccttct ggtgggttct ctgttacgtt tgaagtctga caatccttga 360
gaatctttgc atgcagagga ggtaagaggt attggatttt cacagaggaa gaacacagcg 420
cagaatgaag ggccaggctt actgagctgt ccagtggagg gctcatgggt gggacatgga 480
aaagaaggca gcctaggccc tggggagccc agtccactga gcaagcaagg gactgagtga 540
gccttttgca ggaaaaggct aagaaaaagg aaaaccattc taaaacacaa caagaaactg 600
tccaaatgct ttgggaactg tgtttattgc ctataatggg tccccaaaaa gggtaaccta 660
gacttcagag agaatgagca gagagcaaa gagaaatctg gctgtccttc catttctatt 720
ctggatatctc aggtgaactg gtaaaaggga gacatttgaa aaaaatgaaa cnacccaaac 780
cattactaat gaggtacctg ccnnggcngg ccgttcnaaa gggccaattc cacacactgg 840
gcggccggtta cttaatggat ccnaactcgg taccaanent tgcgtaaate atggggcnnt 900
actgggttnc ctgggggnaa atgggtatnc gttaccaatt cccccaannn ttcganccc 960
gaanccctta agggtaaaanc cctgggggcc ctnaagaggg gctaacttcc catttaaatg 1020
ggtt 1024

```

<210> 83

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 83

```

gggnnnnnnt taanttanac gccnnncttg gtaccgagct cggatcccta gtaacggccg 60
ccagtgtgct ggaattcgcc ctttcgagcg gccgcccggg caggtagact taaaattgg 120
gccgagcagg gatataacct gcagttaagt gaaaagaaaa tccagcctcc cctccaaaa 180

```

```
aaaaaaaaa atttaatttt taaaaattag tggatggca ataagacact tcagaggcta 240
tcttaacctc tgaataccca tcttctagtt taaagacaga gacatcccat ctggaaaatg 300
ttaacttggt ttgtcatctc gttgccggag taagtagaca taagacagag ttaagaagt 360
aaaaatatag aaaaattttg atggtcacaa tgagataaat attagaatat tactattcca 420
atgattaaat gaggatcttg aaataaatc tgaagtcttc caatttttac atttattgga 480
ggggccctg agttctgtca acttttttat ttaagtctct tgctcttatt ttgtgcataa 540
atgttaaacc ttccaaaaat gaaatgttag ctttctttct tttacttttt attaaattta 600
atagaaaata tgacctgagt agttaaaaag tatttgcag tatttgcagt aagatgtctc 660
tagcactgct caaaggggcaa attttaaaac ttcagtctgg gtgaaagatt ttgctagtgt 720
tacagaaaga ttgtctatct taaactcaaa gctgggtttt ctttctcaa tgaagtgcac 780
tgggatgctg gcttaagaat tctttccaag gncatgtttg tgaaataaac cttacatgag 840
agctttcctg ncatctacnc ctatatgtgg cctngagggt gaccaaattt antttagntt 900
ctaaagtgtaa nctatcccaa atgggctatc caaatttgaa tggngccctt catactgnga 960
aggaaaaang tggncctngg ccgggaacac ccttangggc caattttgcg anttccntac 1020
aatt 1024
```

```
<210> 84
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G
```

```
<400> 84
gnagnnnnnn ttgagntngg ccctctagat gcatgctcga gggcccgcca gtgtgatgga 60
tatctgcaga attcgccctt agcgtggctg cggccgaggt acagcattat catctcagta 120
tgtagtggca cacattcaaa atcgtagaga ccataatgagg atagattaca acttagaaac 180
taaaataaat ttgttcaaca ctccagacaa catatagtgt agatgacagg aaagctctca 240
tgtaatgttt atttcacaaa catgaccttg gaagaattca taagacagca tcccagtcac 300
ttacatgaga aaagaaaaac cagcttgagt ttaagatagc aaatctttct gtaaaactag 360
caaatctttc acccagactg aagttttaaa atttgccctt tgagcagtgc tagagacatc 420
ttactgcaaa taatgcaaaa tactttttaa ctactcaggt catattttct attaaattta 480
ataaaaagta aaagaaagaa agctaacatt tcatttttgg aaggtttaac atttatgcac 540
aaaataagag caagagactt aaataaaaaa gttgacagaa ctcagggacc cctccaataa 600
atgtaaaaat tggaaagact cagaatttat ttcaagatcc tcatttaatc attggaatag 660
taatatctta atatttatct cattgtgacc atcaaaaatt ttctatattt ttacttctta 720
aactctgnct tatgnctact tactccggca acgagatgac caccacaagt taacattttc 780
cagaanggat gtctctgnct ttaaaactaga aagatgggta tttcagaggg taagaatacc 840
ctctgaagtg tctttaatgg cataccctta atttttaaaa antaaaattt tttttttttt 900
tgggaggggg aaggtctggat ttcccttcnc ttaacctnga gggtatatcc cctgnttggg 960
acccaatttt aagngnacct ggcccgggcn ggccgttcaa aagggcgaat ttccgcncct 1020
gggc 1024
```

```
<210> 85
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G
```

```
<400> 85
gngnnnnnnt taacnccagc ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt 60
gctggaaattc gccctttcga gcggccgccc gggcaggtac gcggggagag agaagcgagg 120
ttctcgtttc gagggacagg cttgagatcg gctgaagaga gcgggcccag gctctgtgag 180
gaggcaagac acagtgggtc gcaggatctg acaagagtcc aggttctcag gggacagggg 240
gagcaagagg tcaagagctg tgggacacca cagagcagca ctgaaggaga agacctgcct 300
```

```

gtgggtcccc atcgcccaag tctgcccac actcccacct gctaccctga tcagagtcac 360
catgcctcga gctccaaagc gtcagcgctg catgcctgaa gaagatcttc aatcccaaag 420
tgagacacag ggccctcgagg gtgcacaggc tcccctggct gtggaggagg atgcttcac 480
atccacttcc accagctcct cttttccatc ctcttttccc tctctctctt tctctcctcc 540
tcctctgct atcctctaata accaagcacc ccagaggagg tttctgctga tgatgagaca 600
ccaaatcctc ccagagtgct tcagatagcc tgctcctccc ctgggtcgtt gcttcccttc 660
cattagatca atctgatgag ggctccagca gccaaaagga agagaagtc cagcacccca 720
caggctcctgc cagacagtga gtctttaccc agaagtgaga tgatgaaaag gngactggat 780
tnggtgcagt ttctgntntt taagtntcaa atgaanggaa ccgatcncaa anggccgaaa 840
tncttggaag agtgnctna aaaaattatg aagaacnnt tcccttgng gttaangaaa 900
cccctccaan gcnngcnngn nggnctttgg gcnttgangn nnaanggnaa gggatcccn 960
ttggggcnnt tcntttggcc ttggnnncct ncctngggcc ctancttng aaggggaanc 1020
cnnn 1024

```

```

<210> 86
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 86
gnagnnnnnn ttngtttten gaattgggcc ctctagatgc atgctcgagc ggccgccagt 60
gtgatggata tctgcagaat tcgccccttag cgtggtcgag gccgaggtag tccaggtagt 120
tttcttgcac ccaatcttgg gtgagcagct tcctgggctc cccataaatg aggtgctcca 180
tcccatacata cagccccatc atattcagtg ctcccagat gacctcctca ggggtgcagt 240
agccctctat gaagattatg cttaggataa gtatgagaat gccagtcttg ggcagtctct 300
ggacatcact cagcatccca tcataggtga ggcccaggga ggtgacaagg acaaaggagt 360
ggccagtgagg atccacttcc tttacatcaa tgccaaagac cagcagcatg cactcggagg 420
cttactataa caacaaaggg aagtgtctt cataattttt tatgacactc tccagtattt 480
ctgcctttgt gatcggtccc ttcatttgat acttgaagag cagaaactgc accaaatcag 540
tcaccttttc atctatctca cttctgggta aagactcact gtctggcagg acctgtaggg 600
tgcttggact ctctcctttt tggctgctgg agccctcatc agattgatct aatggaaggg 660
aagcaacgac cgagggggag gagcaggcta tctgagcact ctgggggagg aattggtgtc 720
tcatcatcag cagaaacctt ctctggggtg cttggtatta gangatacag gaggaggagg 780
angaagaaga ngaagaagga aaagaggatg gaaaagaagg actgggtgga aatggatgat 840
gaagcatnct tcttcacagc ccaggggaac ctgtgcaccc ttnaagggcc tggggcttac 900
ttttgggaat tgaagaactt nttaggcnt gccannngnt tacccttttg ganccttnag 960
ggcctnaagn acctttganc angggnnncn nnnnnnngga attgggcneg gaaatttggg 1020
ccna 1024

```

```

<210> 87
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 87
gggnnnnnnt taactcatac gccagcttgg taccgagctc ggatccctag taacggccgc 60
cagtggtgctg gaattcgccc ttagcgtggg cgcggccgag gtacattgag accagcaata 120
gttccagcat ctttggtagc ctgacgctga gagtcatata agtaagctgg cactgtgacc 180
acagcattgg taacagtctt cccaaggtag gcttctgcaa tttccttcat ctttgtcaga 240
accatagaag acacctcctc tggatagaag cttttggtct ctcccttgta ttctacttgg 300
accttggggc tgccagcatc attcaccacc ataaagggcc aatgtttcat atcagactgg 360
acaacagcat catcaaatct gcgtccaatc agacgtttgg catcaaaaac tgtgtcgggtg 420

```

```

gggttcattg caacttgatt ctttgccgga tcaccgatca accgttcagt gtccgtaaaag 480
gcgacatagc ttggagtggg tcgggtttccc tgatcattgg caattatctc gacttttccc 540
tgctggaaaa caccacacaca agagtaggtg gtgccaaagt caataccaac tgcaggtccc 600
ttggacatgg ttgctgggat gtaggcctgg ctccaataac gaaggaagcc acaaaaaccc 660
aagagctgca ggcaagtcc aatgagaccc cccgcggacc tgcccgggcg gccgctcgaa 720
agggcgaaat ctgcagatat ccatacact ggccggcgnt cgagcatgca tctaganggc 780
ccaattcgcc ctataagnga gtcgnattac aatcacttgg ccgcgtttta caacgtcgtg 840
acttgggaaa accctggggg acccaactta atcgnttgn agcacaatcc ccntttnncc 900
anctggcgga antnaccnaa aaggcccgna ccgaacggcc ntttccaaaa gttgcncaan 960
cctgaaangg caaaaggacc ccccccttta acggggccat taaaccccn ncngggnnnn 1020
nngg 1024

```

```

<210> 88
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 88
gnnnnnnntn ngattggggc ctctagatgc atgctcgagc ggccgccagt gtgatggata 60
tctgcagaat tcgccccttc agcggccgcc cgggcaggtc cgccgggggt ctcatggac 120
tcgcctgcag ctcttgggtt tttgtggctt ctttcgttat tggagccagg cctacatccc 180
agcaaccatg tccaagggac ctgcagttgg tattgatctt ggcaccacct actcttgtgt 240
gggtgttttc cagcacggaa aagtcgagat aattgccaat gatcaggga accgaaccac 300
tccaagctat gtcgccttta cggacactga acggttgatc ggtgatgccg caaagaatca 360
agttgcaatg aacccccacc acacagtttt tgatgccaaa cgtctgattg gacgcagatt 420
tgatgatgct gttgtccagt ctgatatgaa acattggccc tttatggtgg tgaatgatgc 480
tggcaggccc aaggtccaag tagaatacaa gggagagacc aaaagcttct atccagagga 540
ggtgtcttct atggttctga caaagatgaa ggaaattgca gaagcctacc ttgggaagac 600
tgttaccaat gctgtggtca cagtgccagc ttactttaat gactcttcag cgtcaggcta 660
ccaaagatgc tggaactatt gctggtctca atgtacctcg gcccgngacc acgctaaggg 720
cgaattncag cacactggcc ggccgntact taatggatcc gaactcggta ccaagccttg 780
cgtaatcatg gnccatactg gtttctgnng tgnaatgggt attccggta caattncnca 840
caacattcca anccgggaagc cttnagtgtg aagccctggg tgcccttaag agtgagctta 900
ctnncantta aatgcgttgc gcttnnttgg ccgttttcca tcgggnaaan ctgcngccaa 960
ctggatttaa ggaattggnc aannccccgg ggaaaaaagn gtttggtatg gcgcttttnc 1020
gttt 1024

```

```

<210> 89
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 89
gggnnnnnnt taaactccag cttggtaccg agctcggatc cctagtaacg gccgccagtg 60
tgctggaatt cgcccttgag cggccgcccc ggcaggtaac gttcagtaat gtttaagtga 120
ttcacagtgc tgtgcaaaac atttctatct tgcaaaaacc aagttctata tccactaaac 180
aactccgcat tttccctctc cccagccctt gccaaactgcc attctacttt ctgtttctct 240
atatttgact acactagaca cctcatataa gttaaatcag agagtatttg tttttttgtg 300
actggtttct ttaaacttag cataacatcc tcaagatcca tcaatagtct atcatgtatc 360
atgtattact ctttttttaa gtttgaacaa tattccactg tgtgtgtgtg tgtgcacgtg 420
tataccacgt tttgtttagc cattcgtcca tcaatggaac ttgggttgct tcgacccttt 480
ggctactgta ttacgttgtt ctagcattgc tataaagacc tgaggttggg taatttataa 540

```

```

agaaaagaag ttctgcaggc tatacaagca tgggtgctggc atctgcctgg cttctgggga 600
ggcctcaggg acccttttact catgggtggaa ggtgagggcag gagcaggcat gccacatggt 660
gaaagcagga gcaagaaaga gtggggaggg tgccatcact taaaaaacca gatcccatga 720
gtattcatta ttgcaagaac agcatcaaac catgaggctt cancccgagg cccaaacacc 780
ttccaacang ccccaactcg cattaaggat accctttnaa nntaagggtt gggggggacc 840
aaatntccca actatatcan tgnntttgaa cagggnctcc agttctttta aatcccgaaa 900
aaatntttta aggantccca accctttttaa ngaactaaag gtttcccgna nnnngaaaaag 960
tttttncccc ngggggnaaa attnaatgnn tttccccnaa aaantaantt ttnaaagaaa 1020
nttt 1024

```

```

<210> 90
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 90
gnagnnnnnn ttngttncg aattggggccc tctagatgca tgctcgagcg gccgccagtg 60
tgatggatat ctgcagaatt cgcccttagc gtgggtcgcg ccgcggtaca tctcctaaag 120
actaatggtc atttacaagt tcaaacatga gataaaagtat ttgggtgatat gtccatcaag 180
tataactcag aaatcagtaa acaagtcttt tcccaaagta agttccttct aaatgtagct 240
aaaaagagcc actttgtcat taaagtgaat gagtatgcat ttttagaaca gacttgatgt 300
ttggattgtg ttaaacatat gtctgttagt gaaagtgtta gtcacaaaga taaaatttca 360
tctaaaaata atatataagag aaaaatgcaa taaatataca catggtaaaa tacttctctt 420
ttctgtaaac ttttagttct ttataagggt tgtgatatca tttaaaaatt tttctgtatt 480
gaaagaaact ggagacactg ttcatagcag ctgatatagt ttggatattt gtccccacc 540
aaaccttata ttgaaatgta atccttaatg cggaggtggg gcctgggtggg aggtgtttgg 600
gccacggggg tggagcctca tggtttgatg ctggtcttgc ccactctctc ttgctcctgc tttcaccatg 660
tctgggtttt aaagtggatg gcaccctttc ccactctctc ttgctcctgc tttcaccatg 720
tggcatgcct gctcctgcct caccctcacc atgagtnaaa ggnccctgang cctcccagaa 780
gccangcaga tgccancanc attgcttgga tagcctgcan aacttctttt ctttataaaa 840
taccccaacc tnaggcntta tgccatgctt gaacaaccgt aatnctanc ccaanggtcn 900
aaccaaccca ggtccattgg nngggcnaag gnttaacnaa acgnggnntc cctgcnena 960
nnnnccccn ggggnaaatg gcaacccttn aaaaanaagnn tncctgganc cngnnnnncc 1020
nttt 1024

```

```

<210> 91
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 91
gggnnnnnnt aattancgcc ngcttggtac cgagctcgga tccctagtaa cggccgccag 60
tgtgctggaa ttgcgcccta gcgtgggtgc ggccgaggta ccttggaagt tatgtcatta 120
atataggctg gttcatcaaa taaagcaaaa ccttgcaata tcagctagat ttacactccg 180
ggacgttgcc caaaggtagg aagaaaagcag agggaaatat ttcagtcac atttccaaag 240
tcattatcaa aatctgtgag gaagttaat ctccaaaga gtcaatgtca gacatcaggc 300
ctctgttgcc tgcctctctc gaggcactag attaggagtc ttcaataaga gacttaacat 360
gaggtatatg gaagatgagg caccgagata agttcatcat taggtgtgag cactgctcac 420
ccttgctggc aagttctcct taagggcctg aagcacaggt gtccaaagaa aagcggttaag 480
tccatcttaa tagaatctat gtggatatag atgtggtcag cccctggtct gtgatcagca 540
agaacctaca gcacagatta tgccctgccc acttcaatga atacctactc tccctccattc 600
tccatcactt tttttgctat caagaactcc ggaccttgcc catgggagaa gtttagagag 660

```

gaactcttgt	ggagaactgg	tttattttct	gccctgtgcc	gacgagtttc	agctggccaa	720
gaaaggagtc	aagttattaa	aaagcatcac	aatggagatc	ttccaggctg	ggtttttttg	780
tttttggtgg	taaaactggg	ggaaangggg	actattttat	ctggccttaa	atcaatnggc	840
aaattaagtc	aagaagaccn	ttttgggaat	gtngactatg	gatnccctcc	taatngaagt	900
gagnagcctt	aaaaaggggg	caangtaang	gttttcnggt	atggaagcca	aaanttttnc	960
cggctnaatg	ggntggntnn	ccaatattnn	taccggcccn	aaangggntt	tttncnnngg	1020
gtcc						1024

<210> 92

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 92

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tgcattccata	atttatcgcc	atgtgcaaca	gctttgcgtt	ttctaaggca	caatttttaa	120
tgaaatgatg	tgtagatttc	aatctaataa	cagctcatcc	aaatgacaaa	tatggctgaa	180
atccctccag	tggctgagga	aattttctga	cctatatgga	acccacatgc	aaagaaccca	240
tctagcatgt	aataaataat	cgctagccat	actcaataag	acacggaaaa	attattgctt	300
acataacaga	aaaacatcta	cttgaccccc	ttttatgact	acatcaatct	attaggagtg	360
tatccatagt	ctacattcac	aaaatgtcat	cttgacttat	ttgccattga	tttaaggcag	420
aataaatagt	ccccctttcc	ccagtcttaa	caacaaaaaa	caaaaaacca	gcctggagat	480
ctacattgtg	atgcttttta	ataacttgac	tcctttcttg	gccagctgaa	actcgtcgca	540
cagggcagaa	aataaaccag	ctctccacaa	gagttcctct	ctaaacttct	ccatgggcaa	600
gggtccggagt	tcttgatagc	aaaaaaagtg	atggggagaat	ggaggagaag	taggtattca	660
ttgaagtggg	cagggcataa	tctgtgctgn	aggttcttgc	tgatcacaga	ccaaggcctg	720
accacatcat	ataccacata	gattctatta	agaatggact	taacgctttt	ctttggacac	780
ctgtgcttta	ngccctttta	ggagaacttg	ncanccangg	gtgagcagtg	cttcacacct	840
taaggatgaa	cccttaatctc	ggggcctcat	cttccatata	nccctaaggg	taagnctctt	900
taatggaaga	ctcctnaatt	agnggccttg	aaaagaagca	ggcaccgcaa	gggcctgagg	960
ctgacattgg	ctcttttnga	agaataaact	ttccttaccg	naatttgga	aaggaccttt	1020
ggaa						1024

<210> 93

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 93

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attgtttttg	taacagtatg	caaaatgata	ctgtattgtt	agaacaaaaa	tctgtggagt	180
gttaatactt	tgtaaagcaa	attaaagttt	ctaagcagta	taaaaagaga	atgacatcat	240
cccttcctag	tatttccaag	tcttagagta	ctctacaccc	tggtggctat	ttatctgggg	300
ttagacttct	ggagactttt	cagatagact	tgaagtctct	ggccttgccct	gggaattact	360
ggctgcccac	ggaagcactg	gagaaggcgg	tggtctcctt	gcccttgtag	tctgtctgtg	420
gctgattttg	attgagttcc	tggttcggct	ggtcagagtg	gctggatagt	gttggcccac	480
tccattcctc	aggttttttt	gaagcgggtg	tcttttaggg	agagcctttt	gttcctggaa	540
cttccttgac	gggtcccttt	tcccttctgg	gttgtcttgg	gaacctcttt	ggtgttgatg	600
gggtgttgtt	ggaaaatggg	ctggaggctc	gtggtttcct	ggacatcttc	accagaccag	660
tgtctctcaa	cagtctactc	cagtcacact	ggctcncctg	agcttcccca	ggacagtga	720
ngcaggccac	aggctanaaa	ctgtagtcnc	ccgacattac	aagccaattt	gggnctgtgg	780

gctctgnttt	ccaaatcaac	cctttcanct	tcatttggaa	nccatttcag	gaaanccccg	840
cgtaccttgc	ccgggcgggc	cgttcnaaag	ggcgaattct	gcanaaatcc	cttanacttg	900
ggnggncctg	ttnaacctgc	cttttaaagg	gcccattnn	nccctntnna	nnggagcgan	960
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cccc						1024

<210> 94
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 94						
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gatggagggtg	gagggttgat	ttgggaagca	gagcacagca	gcacaaattt	gcttgtaatg	180
tcggcgacta	cagtttctag	cctgctggcc	tgcttctact	gtcctggggg	aagctcgggg	240
agaccagggtg	gactggagta	gactgttgag	agacactggt	ctggtgaaga	tgtccaggaa	300
accacgagcc	tccagcccat	tttccaacaa	ccacccatca	acaccaaaga	ggttcccaag	360
acaacccaga	agggaaaaag	gacccgtcaa	ggaagttcca	ggaacaaaag	gctctcccta	420
aaagaccacc	gcttcaaaaa	aacctgagga	atggagtggg	ccaacactat	ccagccactc	480
tgaccagccg	aaccagggaac	tcaatcaaaa	tgccgacacg	caggaccaca	agggcaagga	540
gaccacggcc	ttctccagtg	cttccttggg	cagccagtaa	ttcccaggca	aggccagaga	600
cttaagtcta	tctgaaaagt	cttcagaaag	tctaacccca	gataaatagc	cnaacagggt	660
ggagagtact	tctaagactt	ggaaatctta	ggaaagggat	gatgtcantc	tcattttata	720
ctgnttaaaa	actttaantt	ggcttacaag	tattaaccct	tcacagaant	ttgtctacca	780
tncagnatca	atttggcatc	tggtccaaaa	ccattttttt	agggcanttt	gaaaagtctt	840
tnggcgggga	acaccttaag	ggcgantcca	gncacttggg	nggncgtnan	nnnaagggtc	900
caactcgenn	caaannttgn	gnaaacatgg	gnnnanattg	gntcctgggg	ggaaatgtat	960
ccgnttacia	nttcccncaa	nntncnaanc	cggannncnt	taagggtaaa	nnccctgggg	1020
gccc						1024

<210> 95
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 95						
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cgtctcccca	aagctttatc	tgtcttgact	ttttaaaaaa	gtttgggggc	agattctgaa	180
ttggctaaaa	gacatgcatt	tttaaaaacta	gcaactctta	tttctttcct	ttaaaaatac	240
atagcattaa	atcccaaatc	ctattttaag	acctgacagc	ttgagaaggt	cactactgca	300
tttataggac	cttctggttg	ttctgctggt	acgtttgaag	tctgacaatc	cttgagaatc	360
tttgcatgca	gaggaggtaa	gaggtatttg	attttcacag	aggaagaaca	cagcgcagaa	420
tgaaggggcca	ggcttactga	gctgtccagt	ggagggtcca	tgggtgggac	atggaaaaga	480
aggcagccta	ggccctgggg	agcccagtec	actgagcaag	caagggactg	agtgagcctt	540
ttgcaggaaa	aggctaagaa	aaaggaaaac	cattctaaaa	aacaacaaga	aactgtccaa	600
atgctttggg	aactgtgttt	attgcctata	atgggtcccc	aaaatgggta	acctagactt	660
cagagagaat	gagcagagag	caaaggagaa	atctggctgc	cttccatttt	cattctgnta	720
tctcaggtga	actggtanan	gggagacatt	ngaaaaaat	gaaacnacca	aaaccattac	780
taatgaggta	ccttnggncc	gggaacacgc	ttaaggcgaa	ttttgcagaa	atncattaca	840
ctggcggncc	gttcagcatg	cttttaaagg	gcccatttnc	cctttaaggg	agtcgnatta	900

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caatttnant gggccgcgtt ttacaacgtn nggaactggn aaaacccctg gggtnnccca 960
cttnaannnc cttggnnnan aatccccctt tncnaantg gggnnnnnnn ccaaaggccc 1020
cnna 1024

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<210> 96
<211> 1024
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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<400> 96
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gttttgttgt ttcatTTTTt tctaattgtc cccctctacc agctcacctg agataacaga 180
atgaaaatgg aaggacagcc agatttctcc tttgctctct gctcattctc tctgaagtct 240
aggttaccca ttttggggac ccattatagg caataaacac agttcccaaa gcatttggac 300
agtttcttgt tgttttttag aatggttttc ctttttctta gccttttctc gcaaaaggct 360
cactcagtec cttgcttctc cagtggactg ggctccccag ggcttaggct gccttctttt 420
ccatgtccca cccatgagcc ctccactgga cagctcagta agcctggccc ttcatctctg 480
gctgtgttct tctctgttga aaatccaata cctcttacct cctctgcatg caaagattct 540
caaggattgt cagacttcaa acgtaacagc agaaccacca gaaggtccta taaatgcagt 600
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ttaaaggaaa gaaataagaa ttgctagttt taaaaatgca tgtcttttaa ccaattcaga 720
atctgcccc aaactttttt naaaagtcaa ggaccgataa agctttgggg agacngaaaa 780
aaaaaannnn aaaaagtacc tgcccgggcn ggccgttcna aagggcgaaa ttcaacacac 840
tggcgggccc gtacttaatg gatcccaact cggncccaac cttggggaaa ncatgggcn 900
taactgggtt cccggggggn aaatggtatt ccggttacia attccccccc annttccana 960
cccggaaanc cnttaagggt aaaanccctg ggngggccna anggggggct nacctccct 1020
tnaa 1024

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<210> 97
<211> 1024
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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<400> 97
gngnnnnnnn nttnnnttat acgccangct tggtagcag ctcggatccc tagtaacggc 60
cgccagtgtg ctggaattcg cccttagcgt ggtcgcgccc gaggtacatc tgattttata 120
tgttgtccaa actggtcaat ccagttgctt aacacagaaa gcggacagat gatcagtgtt 180
gttcttggtc tctcctcaac atcagttttc tttgaccctt cactgcaca agtccccctt 240
ttcaacattt tcttttttgt ttaggaaca gatgaagtta atgcacatgc aaatgccaca 300
tcttctataa ccttagaaga tcttttcgcc ctgcttttag tttcagactg tacagaggga 360
gagagagaga gaaagagagc acgccagtga gaaagcgagc gcgagcgcca gcgcaagggg 420
aggagagggt gggagagggc ggaaggggga aagctgtccc tgggagattg tgtcttcatt 480
tccacggggc tgcattctct gatggtgcac tgaaaaagca gagctcacca gacagagtgg 540
aaaggcaggg ggaggggcag ggagcaacag aaggaagaga caacaagccc aagacagctt 600
ccatctcaga cggaaggccc ccagaagata gaattccagc cgactgaaaa accacccaat 660
gaacaaagaa gattctagaa aatagaagtg ttgggattac aaagttnngc gtttcattcg 720
tacctgccc ggccgncgnt caangggcga attctgcaga tatccatcac actggcggn 780
gntcgagcat gcatntagan ggcccaantc gncctataag ggagtcgnan tacaattcac 840
ttgggcccgc ttttacaacg tctgacttgg naaaanccct gnggttnccc aacnttaaac 900
ggcnttgag nacaattccc ctttttncca anntgggna antnaccaaa agggccccnn 960
accgatggnc ctttttncaa aagttgggcc aaccttgaaa gggcaaaagg gccccccct 1020

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ttaa

1024

<210> 98
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 98
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atatctgcag aattcgccct tgagcggcgg cccgggaggg taccgatgaa acgcgcaact 120
ttgtaatccc aacactttct attttctaga atcttctttg ttcatgggtt gggttttcag 180
tcggctggaa ttctatcttc tgggggcctt ccgtctgaga tggaaagtgt cttgggcttg 240
ttgtctcttc cttctgttgc tccctgcccc tccccctgcc ttccactct gtctggtgag 300
ctctgctttt tcagtgcacc atcaagagat gcagccccgt ggacatgaag acacaatctc 360
ccaaggacag ctttccccct tccgcccctc cccacctctc cctccccctg cgctcgcgct 420
cgcgctcgct ttctcactgg cgtgctctct ttctctctct ctctccctct gtacagtctg 480
aaactaaagg caggggcgaaa ggatcttcta aggttataga agatgtggca tttgcatgtg 540
cattaacttc atctgttctt acaacaaaaa agaaaaatgt gaaaaaggga gcttgtgcag 600
tggagggttc aaagaaaaact gatgttgagg agagaccaag aacaacactg atcatctgtc 660
cgctttctgt gtttaagcaac tggattgaca gtttggacaa catataaaaa tcagatgtac 720
ctcggncgcy accacgctta gggcgaaatn cagcacactg ggcggccgtt acttaatgga 780
tcggaactcg naccaagcct tgcgtaaaca tggggcaatac tggnttcctg nggggaaatg 840
gtaatccggt tacaatttcc ccacaacntt acaanccgga agcccttaag ngtaaaaccc 900
ctgggngccc caaagagtga gctaacttnc catttaaatg cgttngctca atggcccggt 960
ttccatcggg naaaacctgn ngccantgga ttaangaatc ggncaaancc cccggggnaa 1020
aaan 1024

<210> 99
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 99
aacgccagct tggtagcgag ctccgatccc tagtaacggc cggcagtggt ctggaattcg 60
ccctttcgag cggccgcccc ggcaggtaca gataaatccg tgcattgcat gagggagact 120
agagggtaaa atgaaatctg ccccatcctt cttacataga cagtgatagc attttgaatt 180
gttcttctac atttgaaatc ttagctgaaa gatcatcagc caccgacctt ttgtgaagct 240
agttctctag aacatacaat gttttttaaa aaattaaaaa cacagaagga aaaaagcaag 300
aaccaacgat aaatggagct tgtgcagaat ctggcagtg tgtggacctg cccatctgtt 360
ctcccccgcg tactgactga acacactccc cgctttgggt cctgtaggac gggtagata 420
ccacaccttg gcaaccacca gtaaaggctc atagtctagc ccttgggagg ccccgatttt 480
agggtctgtc tcggaggcga cctacgttag ggactgggag aagcgggtac ctccgcccgcg 540
accacgctaa gggcgaaatc tgcagatata catcacactg gcggccgctc gagcatgcat 600
ctagaggggc caattcgccc tatagtgagt cgtattacaa ttcacttggc ccgtcgtttt 660
acaacgtcgt gactgggaaa accctgccgt taccacactt aatcgcttg cagcacatcc 720
ccctttcgcc agctgcgtaa taacgaaaag cccgnaccga tcgccctttc cacagtgtcg 780
caacctgaat ggcnaatgga ccccccttg taccggcgca ttaaccnccn gccggntnnt 840
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ttcttncctt ccttttttng cccgttngcc nggtttttcc cgttaagctt taaannnggg 960
gcttccccct ttanggggtc aaataangct ttacgggncc ttaaccccc aaaaaaattt 1020
nnnt 1024

<210> 100
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 100
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tgatggatat ctgcagaatt cgcccttagc gtggctcgcg ccgaggtacc cgcttctccc 120
agtcacctaac gtaggctcgcc tccgagcaca gccctaaaat cggggcctcc caagggctag 180
actatgagcc ttactgggtg gttgccaagg tgtggtatct caccgcctcc acaggaacca 240
aagcggggag tgtgttcagt cagtacgcgg gggagaacag atgggcagggt ccacagcact 300
gccagattct gcacaagctc catttatcgt tgggtcttgc ttttttccct ctgtgttttt 360
aattttttta aaaacattgt atgttctaga gaactagctt caaaaaagggt cgggtggctga 420
tgatctttca gctaagattt caaatgtaga agaacaattc aaaatgctat cactgtgtat 480
gtaagaagga tggggcagat ttcatattac cctctagtct cctcaatgc atgcacggat 540
ttatctgtac ctgcccgggc ggccgctcga aagggcgaat tccagcacac tggcggccgt 600
tactagtga tccgagctcg gtaccaagct tggcgtaatc atggctcatag ctgnttctctg 660
tgtgaaattg ntatccgctc acaattccac acaacatacg agcccggaag ccataaagtg 720
tnaaagccct ggggtgcctn atgagtgaac taactcacat ttaattgcgt tgcgctcact 780
ggccccnttt cagtcgggaa aactgcntgc cactgcctaa tgaatcgcc acgccccggg 840
gaaaaagcgn ttgcgtantg ggcgctnttc cgctttcttg gttaactgac tcnttgggct 900
ttggccttng gnttngggnn aacgggttna acttncnttn aaangggggn naatccggt 960
tnccccgaaa nncggggata acccccgga anaactttgn ccnaaaggcc ccnaaangg 1020
cccn 1024

<210> 101
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 101
gggnnnnnnt tgaatnacac gccagcttgg taccgagctc ggatccctag taacggccgc 60
cagtgtgctg gaattcgccc tttagcgtgg cgcggccgag gtacgcgggt attttcttaa 120
atttcttgaa tgttctttat ggtagtgtta ctaaaaagtt tatgatcaca ttttcattgt 180
gaacataatt tgaactcatt atcacacact tggaaaatac agaaaagtgg aggaaaaaaa 240
atcatatccc caccatccaa agacatatac tctctcttta tcttgttcat tcttgtttct 300
gtgcacaggt ttatgattat aactgtgtca aaatgtatat tcaaaatagc tgttacatta 360
cctttgtgga attatgtgta aatactttca cttaattttt ttcaaatggt ccctataata 420
atgttctgat aacagtgtat tatgtgtgtc tccattgggtg tgcataatac ataccagag 480
gaaaaattag aaaataaagt aaattatttt aaaaaattac ctatattccc aacacctaac 540
aactactgct aacatcttga tctgtttcct ctatcttgtt tcagtgcaca cgcttgtgat 600
aacagtgtta aatatgtgtg cataaagtct taaatgaaaa gatgtggaaa ataactaaaa 660
tagtgtgtgc attgtgggaa tttggttaaa tattttgtct caaattcctt aaataatctt 720
tggtgttttg gtaataaatt ttaatgatgt attttccatt acaaatataa tacatactca 780
tacaaaactt tggaaaatta gtaagaaaaa ttcacacata tccccacacc caacaccaat 840
ttaactggn accactctga ctgngcncnta agctgggatt antttaggng tagtggataa 900
gtatgcctaa aggccaaaaa tgggaagaag gatgaaaanc cngaaaatan ttncctgggt 960
gtnnngggaa taagggggaat ttgggttcgg ttcctttgaa agggcatnnn tttcaagggg 1020
tttt 1024

<210> 102
<211> 1020

<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1020)
<223> n = A,T,C or G

<400> 102

ggagnnnnntt	aaacgccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gccctttcga	gcggccgccc	gggcaggtac	tctttctctc	cctcctctcg	120
aatttaattc	tttcaacttg	caatttgcaa	ggattacaca	tttactgtg	atgtatattg	180
tgttgcaaaa	aaaaaagtgt	ctttgtttaa	aattacttgg	tttgtgaatc	catcttgctt	240
tttccccatt	ggaactagtc	attaacccat	ctctgaactg	gtagaaaaac	atctgaagag	300
ctagtctatc	agcatctgac	aggtgaattg	gatggttctc	agaaccattt	caccagaca	360
gcctgtttct	atcctgttta	ataaattagt	ttgggttctc	tacatgcata	acaaaccctg	420
ctccaatctg	tcacataaaa	gtctgtgact	tgaagtttag	tcagcaccct	cacaaactt	480
tatttttcta	tgtgtttttt	gcaacatatg	agtgttttga	aaataaagta	cctcggccgc	540
gaccacgcta	agggcgaatt	ctgcagatat	ccatcacact	ggcggccgct	cgagcatgca	600
tctagagggc	ccaattcgcc	ctatagttag	tcgtattaca	attcactgcc	cgctgtttta	660
caacgtcgtg	actgggaaaa	ccctgcgtta	cccaacttaa	tcgccttgca	gcacatcccc	720
ctttcgccag	ctggcgtaat	aacgaaaagc	cccgaccga	tcgccttttc	caacaggtgc	780
gcaacctgaa	tggcgaaatg	gacccccctt	ggaaccggcg	cantaaaccc	ccgncggggn	840
nntngggtag	ccccacggg	ganccgttca	cttggecann	gccctaangn	cccgttcctt	900
tnggtttctt	tccttctctt	ttgcccgttt	gnccgggttt	tcccggnaag	ctttaaaaac	960
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<210> 103
<211> 1021
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1021)
<223> n = A,T,C or G

<400> 103

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ctgcagaatt	cgcccttagc	gtggctcgcg	ccgaggtact	ttattttcaa	aacactcata	120
tggttgcaaaa	aacacataga	aaaataaagt	ttggtggggg	tgctgactaa	acttcaagtc	180
acagactttt	atgtgacaga	ttggagcagg	gtttgttatg	catgtagaga	acccaaacta	240
atttattaaa	caggatagaa	acaggctgtc	tggttgaaat	ggttctgaga	accatccaat	300
tcacctgtca	gatgctgata	gactagctct	tcagatgttt	ttctaccagt	tcagagatgg	360
gttaatgact	agttccaatg	gggaaaaagc	aagatggatt	cacaaaccaa	gtaattttta	420
acaaagacac	tttttttttt	gcaacacaat	atacatcaca	gtgaaatgtg	taatccttgc	480
aaattgcaag	ttgaaagaat	taaattcaga	ggaggggaga	gaaagagtag	ctgcccgggc	540
ggccgctcga	aagggcgaat	tccagcacac	tgccggccgt	tactagtggg	tccgagctcg	600
gtaccaagct	tggcgtaatc	atggtcatag	ctgnttcctg	tgtgaaattg	gtatccgctc	660
acaattccac	acaacatacg	agcccgggaag	cataaagtgt	aaagccctgg	gggtgccta	720
gagtgaagta	actcacatta	aatgcgttgc	gtcactggc	cgctttncag	tccgggaaac	780
ctgtcgtgcc	agctgcatta	atgaatccgg	ncaacgcccc	ggggaaaaag	cggttgcgta	840
ttgggcgctc	ttncgctttc	ttggttactg	gtccttng	cctcgccgt	tccgnttcg	900
gnnaaccggt	atcagcttac	ttcaaangcg	gnaaatccgg	tttnccnga	aatccggggg	960
ttaacnccag	gaaaaanaacc	tttgaaccna	aaggggcccn	aaaagggccc	ggaaccctaa	1020
a						1021

<210> 104
<211> 1017
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1017)
<223> n = A,T,C or G

<400> 104

ggagnnntta	atcnacgceen	gcttggtacc	gagctcggat	ccctagtaac	ggccgccagt	60
gtgctggaat	tcgcccttag	cgtggtcgcg	gccgaggtag	tcagctgtct	taataggatg	120
aagccttaag	cagtggaaat	ttcagttatt	ttccacagta	ttccattttg	gaggatttgg	180
ggtgtttact	ttttaaatc	ttgaacaact	taacctccat	gaggctttgt	gaagtcagct	240
gtgaccacc	tcctcttact	gtgttctcag	tattcattca	cttccaggga	agaatgacag	300
ccacaggag	atggtgggtg	gcaagaatga	gagtcacagg	atccagattt	agcctcagat	360
cttccccatt	caggaagggt	tttccattta	acaagagcac	tagtatgaaa	acattaggga	420
caaattctcc	atgtctttga	aattcggatt	ctcctcttga	gatcccttcc	ctcacctgcc	480
aatcaacttt	ataagggcac	aagtgggtcac	tggttttcct	tcacacagggt	tgagggttctc	540
agcttttcct	aagcgaccca	gcagctccgc	tggttttcaga	gtgaatatgt	taagctttga	600
tgagattcta	ttttcagtaa	gttagtgctt	ctgggacact	tggagaaagc	tgtgagagtc	660
attggctacg	caaagaacaa	cgaaagctga	tcctaaaagt	gatccaatct	aagaaaatgg	720
taaaacgagc	tctggccaca	gcacagaatt	ttatgtgang	aactcagatt	ttgaagact	780
taacaattgc	agaaaaaggn	tcagcctgn	acacccatag	cccaactttt	ntgagccana	840
ctttgggttt	tggnggggga	cntggcacca	tgtttgnacc	tggccggccg	gnccgttcna	900
aagggccaaa	ttntggcnga	aatnccttac	actggggggc	cgtttgagca	tcctntaaa	960
ngggcccaan	tngnccctta	aaggggggcn	nttccaatt	nnctggggcc	ggttttn	1017

<210> 105
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 105

ggagnnnttt	nnntnnngan	tgggccctct	agatgcatgc	tcgagcggcc	gccagtgtga	60
tggatatctg	cagaattcgc	cctttcgagc	ggccgcccgg	caggtacaaa	catgtgccac	120
gtcaccacac	aaaaccaaag	tctgtctcaga	gaggtgggct	atggtgtgca	ggctgcaacc	180
tttctctgca	attgttaagt	cttcaaaaat	ctgagttcct	cacataaaaat	tctgtgctgt	240
ggccagagct	cgttttacca	ttttcttaga	ttggatcact	tttaggatca	gcttcggtgt	300
tctttgcgta	gacaaatgact	ctcacagctt	tctccaagtg	tcccagaagc	actaacttac	360
tgaaaataga	atctcatcaa	agcttaacat	attcactctg	aaaacagcgg	agctgctggg	420
tcgcttaagg	aaagctgaga	acctcaaacc	tgtggaagga	aaaccagtga	ccacttgtgg	480
ccttataaag	ttgattggca	ggtgaggaag	gggatctcaa	gaggagaatc	cgaatttcaa	540
agacatggga	gatttgtccc	taatgttttc	atactagtgc	tcttggttaa	tggaaaaccc	600
ttcctgaatg	gggaagatct	gaggctaaat	ctggatcctg	ggactctcat	tcttgcccac	660
caccatctcc	ctgtggctgt	cattcttccc	ctgaagtga	tgaatactga	gaacacagta	720
aggaaggagg	gtggtcacaa	gctgacttca	caaagcccta	atggangggt	aagttgggtca	780
agaatttnaa	aagtaacccc	cccaaactct	ccaaaaatgg	gaatactggt	ggaaaataac	840
ctggaaattn	ccctgggttta	aggcttcatt	ctattaagac	cgcttgagta	cccttggccg	900
ngaacccct	taaggggcga	ntncaacaca	ctggnggggc	cggtacctaa	nggatcccaa	960
ctnggnaccc	aancnttggg	gaaancatng	ggccataact	gggttcccgg	ggggaaatgg	1020
taat						1024

<210> 106
<211> 1007
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1007)

<223> n = A,T,C or G

<400> 106

ggagnnnnntt	aaacgccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggtcgcggc	cgagggtacac	agaatagctg	agcagttcac	120
ttcagggatc	aggctcatctc	tgctcctcct	agtttcacca	tggtctggca	ataaaaaaca	180
catattatat	cctgggttttc	tctatccttg	cattactaag	gtgactgtct	ctctttatac	240
atccttgtat	gggtctccca	gtattagcaa	gattgtatat	ctgtaaagaa	tgtccagttt	300
tgtaaatatt	tccttgccctt	tttttttctt	tttttacatc	tgattttaat	gcttcgttaa	360
cttcaaaaagg	aactggtaga	gttcagaagg	tgagctgttg	tttttctaaa	cctcttccca	420
ggaaggggac	attgacactt	gaatttttgt	caoctttttc	ctcattagaa	ggaagtaga	480
aagccttact	tgaggattttt	taaaaaaaaa	tccatctcac	cccatattgg	tcttaataaa	540
gtatagacta	attaacctaa	gctaccttta	acaacgtaga	atttaanatg	ggttcatata	600
tgtgagaaaa	acctgaatat	aggacagggg	tcctactttt	ttccccacct	ctgtcgccca	660
ggctagagta	ntaantgggtg	gatcttgccc	cactgcaacc	tctgcttcta	gggtcaagtg	720
attctcctgc	tcagcctncc	aagtancccg	ggaattggaa	gagtatgcca	ccacgcccag	780
ctactttttg	gaattttagt	nnaaaacagg	ttcatcatgn	tggncccnag	agggcnctta	840
antcctgncc	ttnagngatc	cccccnana	ngaaaccntg	gncnncccaa	nnnncngggn	900
tntagcnnnn	ccnccnggcc	cannctactt	tnnnaannnn	nnnnnnnnnn	nnnnnnnnnn	960
nnnnnnnnna	nnngnnnnnn	nccngnnngn	ccnnnnnnng	gnaantc		1007

<210> 107

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 107

gnagnnnnnn	nngattgggc	cctctagatg	catgctcgag	cggccgccag	tgtgatggat	60
atctgcagaa	ttcgccctta	gcggccgccc	gggcaggtac	tttttttttt	tttttttttt	120
tttttttttt	aattaattag	aaagttaggt	gggcacggng	gctcatgcct	ataatcccag	180
cacttgggga	ggccgaggat	ctcctctctg	gnggatcact	tgagggcagg	agttaagaga	240
ccatcctggc	caacatgatg	aaaccctgtc	tctactaaaa	atacaaaaag	tagctgggag	300
tggtggcata	ctcttacaat	cccggctact	tgggaggctg	aggcaggana	atcacttgaa	360
cctaggaagc	agaggttgca	gtgggccaag	atcacaccac	tatactctag	cctgggagac	420
agaggtgggg	aaaaaagtag	gaccctgtc	ctatattcag	gttttttctc	catatatgaa	480
cccactctaa	ttctacgttg	ttaaaaggtag	cttaggttaa	ttagtctata	cttattttaag	540
accaatatgg	ggtganatgg	attttttttt	aaaaatccta	cagtaaggct	ttctactttc	600
cttctaata	ggaaaaaggt	gacaaaaatt	caagtgtcaa	tgccccctcc	ttggggaaga	660
ggtttagaaa	aacaacagct	caccttntga	acttttacca	gttccttttt	gagttaaccg	720
aagcnttaaa	aatcagatgt	aaaaaaangaa	aaaaaaaaggc	cgggaaaattt	ttaccaaact	780
nggacattct	ttacagatat	acaatcttgc	taaaacctgg	gaaaaccctt	ccnngggtgt	840
ttaaagggga	aacagtcccc	cttataatgc	ccgggggttna	gaaaancccg	gatttttnaa	900
aaaggggttt	tattgcccga	aactggggga	accttngggg	ggncccaaaa	nnaacctgan	960
cccctgaagg	naccgggttn	annnnntttt	tgggaccttg	gccgggaacc	cccttngggg	1020
ggna						1024

<210> 108

<211> 470

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(470)

<223> n = A,T,C or G

<400> 108

actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgcc	60
agtgtgctgg	aattcgccct	ttcagagcgg	cgcccgggca	ggtactattt	tttttttttt	120
ttttcgtgtn	tttgacattc	cttgaatctg	ttttttattc	cccttccaca	gaacaggcct	180
gggactttcc	aacaccctgc	taagggaagt	ctgtgtccaa	gtcccaccca	ggctgggttg	240
tccccacctn	ctncagccca	cacagcccag	gcagcatccg	ggccagtgcc	ctgcatgaca	300
nagggctctt	gttgtgtaat	gnttgttccc	aagttgcatt	ttctaaccga	atcagtgtgt	360
tttcatgaaa	ctgagtgtta	ctgtggacca	gtaagttnct	ctgttgtctt	cagtgggtct	420
cctgtgtggc	tcaaggggtc	tctgtgagag	tctggatttt	catttctggg		470

<210> 109

<211> 808

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(808)

<223> n = A,T,C or G

<400> 109

gggcctctag	angcatgctc	gacggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
agcgtggctg	cgcccgaggt	acaagtctgc	ctaagagaca	gaagtgagtn	ttataatcta	120
cttggccatt	cctcccagca	gagaagcagc	aggtagatat	ggcatgcact	gtgcctgctg	180
ctgctgctct	tgtggcgaa	actcagatgt	ggaaccatag	agggaccttg	aggagctggg	240
acatgattct	ttagagaaga	gaagagacgg	ggagcacagc	atgagaatgg	ccagtcaacc	300
catttcaaat	tcttttatta	aagtgcctcc	cgaggggcct	tgcacaaaaga	tgatggggag	360
agcagaactg	ctgctccttg	acagaactct	gacccctaca	ctttgttttg	agtgggcttg	420
gggacagtca	caagccatga	aacatgaatc	caaaatggtc	cccagatgag	ccatgggtgaa	480
ccaacagatg	caagcaactt	cttaaaactgc	tctattaaac	actgctttat	atgtgtcccc	540
atgatacaga	aaagtgggat	ggggccagcc	attccagaaa	tgaaaatcca	gactctcaca	600
gagaaccctt	gagccacaca	ggaagaccac	tgaagacaac	agaggaacta	ctggtccaca	660
gaaacactca	gtttcatgaa	aacacactga	ttcgggtaga	aaatgcaact	tgggaacaaa	720
cattacacaa	caaagacctt	ctgtcatgca	gggcactggc	ccggatgctg	ctgggctgtg	780
tgggctggaa	gangtgggga	caaccacac				808

<210> 110

<211> 471

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(471)

<223> n = A,T,C or G

<400> 110

actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgcc	60
cagtgtgctg	gaattcgccc	tttcgagcgg	cgcccggggc	aggtacagcg	acgtgatgat	120
gtagaggcgc	ttcccatcca	ggctgagctg	gatcatctga	gggcctncag	ccacccgttt	180
tcccttgacc	actaggggct	ctggctggga	ctttagtctc	tcgtcctcca	gcacttgcac	240
agggcctccc	ttaacaatgc	tgccctccag	gaagagctgt	cctgtgaggc	ggggtctctg	300
tgggtcagag	atgtcatact	gcctcaggtc	cccatgcagc	cagttgctga	agtagaggaa	360
gcggctcgtc	agggagagca	ggatgtcggt	gatcaggcct	ggcatttcgg	gcagcagcca	420
gcccttcaact	ttcttggggg	gcacctggat	caccttctcc	actgacctg	t	471

<210> 111

<211> 468

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(468)

<223> n = A,T,C or G

<400> 111

actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atccctagta	acggcccgcca	60
gtgtgctgga	attcgccctt	agcgtgggtcg	cggccgaggt	acttnnttnc	tttntttaca	120
tctgatttta	atgcttcggt	aacttcacaaa	ggaactggta	gagttcanaa	ggtgagctgt	180
tgttttntcta	aacctnttcc	caggaagggg	acattgacac	ttgaattttt	gtcacctttt	240
tcctcattag	aaggaaagta	naaagcctta	ctgtaggatt	tttaaaaaaa	aatccatctc	300
accccatatt	ggctcttaaat	aagtatagac	taattaacct	aagctacctt	taacaacgta	360
gaatttagat	gggttcatat	atgtgagaaa	agcctgaata	tangacaggg	gtcctacttt	420
tttccccacc	tctgtcgccc	aggctggagt	atagtgggtg	gatcttng		468

<210> 112

<211> 813

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(813)

<223> n = A,T,C or G

<400> 112

attgggcctc	tnnagcatgc	tcgacggccg	ccatgtgatg	gatatctgca	gaattcgccc	60
tttcgagcgg	cgcgccgggc	aggtaaccatg	ctgacttctt	ggtatctttt	anggcctaata	120
tttcccttcc	ttgagattac	tgtagtgtgt	tccagctaat	ttctatcttg	aaacgagttg	180
gaacagctga	aaactaggta	ttattgaagg	caaagcagcc	tcacgtcagt	tttttatcag	240
ctcatttggy	aagttttntt	ttttttntn	ttaattaatt	agaaaagtagg	ctgggcacgg	300
nggctcatgc	ctataatccc	agcacttggg	gagggccgag	atctcctctc	tgggtggatca	360
cttgagggca	ggagttaaga	gaccatcctg	gccaacatga	tgaaaccctg	tctctactaa	420
aaatacaaaa	agtagctggg	cgtgggtggca	tactcttaca	atcccagcta	cttggggaggc	480
tgaggcgagg	gaatcacttg	aacccaggaa	gcagagggtg	cagtgggcca	agatcacacc	540
actatactcc	agcctggggc	acagaggtgg	ggaaaaaagt	nagaccocctg	tcctatatte	600
aggctttgct	cacatatatg	aacccatcta	aattctacgt	tgttaaaggt	agcttaggtt	660
aattagncta	tacttattta	agaccaatat	ggggtganat	ggattttttt	ttaaaaatnc	720
tacagtaagg	ctttctactt	tccttctaata	gaggaaaaang	gtgacaaaaa	ttcaagtgtc	780
natgcccctt	cctgggggaag	aggtttaaaa	aat			813

<210> 113

<211> 506

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(506)

<223> n = A,T,C or G

<400> 113

nccaacttgg	taccganctc	ggatccctag	taacggcana	cattganctg	atagcccaag	60
cttggtaccg	agctcggatc	cactagtaac	ggncgccagt	gtgctggaat	tcgcccttcg	120
agcggccgcc	cgggcaggta	cgcggggcct	ctggcgctac	catggcggtt	ggcaagagtc	180
accgggatcc	ctacgcgacc	tccgtgggcc	acctcataga	aaaggctaca	tttgctggag	240
ttcagactga	agattggggc	cagttcatgc	acatctgtga	cataattaac	actaccagg	300
atggggccaaa	agatgcagtg	aaagctttga	agaaaangat	ttncaaaaac	tacaatcata	360
aagaaatcca	acttaccttg	tcacttatgg	acatgtgtgt	gcagaaactgt	ggtccaagtt	420
tccagtctct	gattgtgaag	aaggaatttg	ttaaagagaa	tttagttaag	ctactgaatc	480
ccagatacaa	cttgccatta	gacatt				506

<210> 114

<211> 813

<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(813)
<223> n = A,T,C or G

<400> 114

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gggcccnnnn agctgctcga gcgcccgcca gtgtgatgga tatctgcaga attcgccctt    60
agcgtggctg cgcccgaggt acaacttatt ctaaattttt tcattttctg tgttctaaat    120
agaaatatta agttgcagta aaaagagaaa aaaaggctat ttagcattac aaagaatcat    180
atttaaaggc tgcccaatgt agagtctagt gacctgttca ggacacctga aatataatta    240
aatgacaatt atcaagggtt taacaattta taattctaaa ccagaggatt ataaagaagt    300
gcaaattgac ttttacattc aacttttagt aaatgaaggc actcagtatt ctctctgaat    360
aatacattca gtttctcaca ttttatgctt tcatctattc agaattattt catagtaaaa    420
taatctactc ttatcacagc tgtgtgacga tttctaaatg taggaaggcc tgtgaaacat    480
gacactgcag ttaaatttgt tggcctaagg actaagtaat ttttcttctg ctgaagtttt    540
aagtgagtat ttgttccaaa caagttctgt tgaaatctca cgctgttgct aggaatcagt    600
gttatcctgg aactgttatt ctatttaatc ttcattatag cagaaatgtg ccaccatggc    660
tttgacatgt tggtaggtat tgtcttcacg gcttcaaagc tgcacagagt ctacgtttta    720
gagagttggc acctttgatg tggtagtgag ctgatcatnc actttcttct cagtcaccat    780
cattttgagc tcctttgtgc tggtagagcat can                               813

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<210> 115
<211> 471
<212> DNA
<213> Homo Sapien

<400> 115

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accagctatg acctgattac gccaaagctg gtaccgagct cggatccact agtaacggcc    60
gccagtgtgc tggaaattgc ccttagcgtg gtcgcccgcg aggtaccatg attttgtgtt    120
caggaaacaa agaacatgaa atattacatt cttcagaatg ttttcttgtt gccattaaat    180
gaatcaagta aatgaggcaa tgaggcacia ataaggaatt tagatttcag caatattttg    240
atccactgta gctttcagtt tctgaaactt tggaaaggcc tacatacttt gtaagaattt    300
ttggcttata ttgttaataa tcaacagagc caagaaaaca tttcttagaa tgttcaaaga    360
caccacetta gccttccttc cctgcagcta taacattatt tttctaagag aaaaggcaga    420
gagtcttcac aaagccatac cagacttaaa attaccagag aacatttttg t                               471

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<210> 116
<211> 818
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(818)
<223> n = A,T,C or G

<400> 116

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ttncannggg cccctagagc atgctcgagc gccgccatgt gatggatata tgcagaattc    60
gccctttcga gcggccgccc gggcaggtag tttttttttt tttttttttt tttttttgtg    120
tgttgtcttg aactcctggc ctcaaagtat cttcctgcct cagcctccca aagtcctggg    180
attactggca tgagtcacca cacctggctc attcttttct ttaatatggc tctaaatggc    240
tttttatttt ttttgctttg gcaatttatt tctaggaaat taaataattc tttcattata    300
atcaagggaa tgaagagact caggaggtcc atagtggagt tcaaaacat atggagtcca    360
ctattctaca agattataca ggcaataata taagtattct aagggtgttt aggtagattt    420
atagatgtta gatttcaaaa tgggttaata agtgtttatg aatttccaag gtgtatcact    480
aacttctcaa gatgaaatca tatatagaaa ctatcaaaat tttccttgtt ctgctgtcaa    540
gaaatgaata atataactg atataactgt aactcacatc taaagggata gtgcttgaat    600
aagctaattt acaatgagtt caaggtatta ttttaaaatt cttattgncc ttagacaata    660
attatgccaa caaatgtgaa aaatattaaa tctccttctg ntaatttttc cagttttatt    720

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acccaaaagt cacacaggta atgcaagtca tgaaataaat caaatgagcc cttcctggag 780
agcctacttt atttaccttg ggaaaatgga tgacatnt 818

<210> 117
<211> 467
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(467)
<223> n = A,T,C or G

<400> 117
accactatga cctgattacg ccaagcttgg taccgagctc ggatccacta gtaacggccg 60
ccagtgtgct ggaattcgcc ctttcgagcg gccgcccggg caggactactac tggttttctc 120
cctggcttca cgtgtctctg tgctccctta tgctgggggtg tcctccctagt gcttttcaggc 180
ttcatctcct tcctaaccctc tcctttctat tttttttttt ttttttgaga tggagtcttg 240
ctcagtcgcc cangtctggag tgctaaccctc tcctttcatg tggagatgga caggggatggc 300
aggagcactg agtgctcttg acaacacccat tgaagatgat gctgacgatc agctaccctg 360
tggagaaggc aggccaggct gggtagaggg ggagctcctt ggaagtcagg gggctctgtaa 420
ggacagcaag gatctctttg tcccaaccctc cagcagcctt tatgggt 467

<210> 118
<211> 815
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

<400> 118
gggcctctna agcatgctcg acggcccgcca tgtgatggat atctgcagaa ttcgccctta 60
gcgtgggtcgc ggccgaggta cctgggggtct cagggttgct ctgggcctga tcatccactc 120
agatctgtaa ggaggatttg caggatccat ttagaaagat cctcccttac ttccacaagc 180
atggcctttg gctcttaaat acctgtgctg ggggtttgta attatagaaa caacaggaac 240
caaaactcat taatgttgag ctacaaacca gagggagct tctttctcaa aacagggctc 300
aggcctagaa aaatctagtt ttctgaaatc gctagccagc aacagcactg agatggccat 360
cccagaaaca aggccaaacac agaagcacc ctaaaaggctg ctggaggttg ggacaaagag 420
atccttgctg tccttacaga ccccttgact tccaaggagc tccctctca cccagcctgg 480
cctgccttct ccacagggta gctgacgctc agcatcatct tcaatgggtg tgtaagagc 540
actcagtgct cctgccatcc ctgtccatct ccacatgaaa ggagaggtta gcaactccagc 600
ctgggcgact gagcaagact ccatctcaaa aaaaaaaaaa aaaatagaaa ggagaggtta 660
ggaaggagat gaagcctgaa agcactggga ggacacccca gcatagggga acacagagac 720
acgtgaagcc agggagaaaa ccagtagtac ctgcccggcg gccgntcgaa agggcgaatt 780
ccagcacact ggcgggcccgt tactagtgga tccct 815

<210> 119
<211> 811
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(811)
<223> n = A,T,C or G

<400> 119
gggcctctnn agctgctoga cggccgcat gtgatggata tctgcagaat tcgcccttag 60
cgtgggtcgc gccgaggtac tctatttttt gcttgatgta ttgatgggtc tttcattatc 120

```

tgtgattgac attctatgag taggtgcttt tgctttgcct ataagtcggt attatgaagg 180
aggaatggtg aataagaagg taatttagaa aagcctatat taaatatacc atgaacattg 240
aatatagcaa gatcttattc tctagttggt atcttagttg ataaattctg tatgtgttat 300
gtgtttgtgt atacatatgt acttaatctg atcgggtatct aaaagaagga aaggatgggtc 360
aggaacatt tatcataaat gtagccaagg atatcaatta gggtagacaa gaataggaca 420
aaaataggcc agagctcctg aggaggtgat atgggtccct tgatttgacg aaaatgacag 480
cctatccaag tggcccagtg tatgcctccc agtagcagtg ggcattgtaa ctgcagcgac 540
cttattttta aaacaaaaaa cctagtatgt ggacaaagaa catgacaata tttggtacct 600
gcccgggagg cgcgtcgaaa gggcgaattc cagcacactg gcggccgtta ctagtggatc 660
cgagctcggg ccaagcttgg cgtaatcatg gtcatagctg gttcctgtgt gaaattggga 720
tcccgcctcac aattncaca cacatacgaa ccggaagca ttaaagtgtg aaagcctggg 780
gtgcctaagt aagtgaagta ctcacattaa a 811

```

```

<210> 120
<211> 466
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(466)
<223> n = A,T,C or G

```

```

<400> 120
anttgcctg attacgcaa gcttggtacc gagctcggat ccactagtaa cggccgccag 60
tgtgctggaa ttgcgccctt cgagcggccg cccgggcagg taccacggt ttgctccaca 120
ctccttgacc acaggggctc ggacacaaac ccctgtcacc aggagagtca gtcagcacta 180
cttgggaggg cttaaaggaa atttggaat aaaattccaa agtttgaggt aaaaaaattc 240
aagtgttgat tttatatctt ttccctttct gacacagcct aaagcgtagg gggaaacatg 300
gtttatctgt gggagataaa caagatggag tcccaaagac tttacaaaaa tattttttta 360
aaaatccact agaatagaaa atacattatt tagatatact ttatgctgag agtgagtata 420
tatgcttgtc ctatttaaac ttgtgagaaa aagtgggtat ccttng 466

```

```

<210> 121
<211> 812
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(812)
<223> n = A,T,C or G

```

```

<400> 121
ttgggccc nt ntagcatgct cgagcggccg ccagtgatgat ggatatctgc agaattcgcc 60
cttagcgtgg ttgcggccga ggtacaactc tccagggcac aatacgttta cagctgcctt 120
tccttcacat actttttctaa ttcagaacta ctcacaattc taagcaaatt cccattcacg 180
aagtctgtcc ataatgcgac cttctctttt tttacatat acatctttaa aaacaaatat 240
ataaaaaatt cttattttgc tggaaatgct tcaatttttc acattttaca tgatcatcac 300
atattttct tatattgaaa ggcatggttt ctgttgacat gtcgtgcaaa gccaaaaaaa 360
aaaaaaaaaa aaagggctgg attgcttttc aattgggtcta acacttttcc ttgtctaggc 420
tttggtattt aaagtccatg acagccccac caccagtaga aaccccaagg cttgcatttc 480
ctggtaatcg actggaaacg tccoctgttg gccatgctaa gattccttca acagggctcat 540
cctgcattta ttctccttct gccccacccc cacaatgaaa caagatagcc ccatatttc 600
taaatgtatc aagggtatcc actttttctc acaagtttaa ataggacaag catatatact 660
cactctcagc ataaagtata tctaaataat gtattttcta ttctagnnga tttttaaaaa 720
aatattttgg taaagtcttt ggggactcca tcttggttat cttccacaga taaacatgt 780
tcccctacg ctttaggctg tggtcagaaa gg 812

```

```

<210> 122
<211> 467
<212> DNA

```

<213> Homo Sapien

<400> 122

actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgcc	60
agtgtgctgg	aattcgccct	tagcgtgggc	gcggccgagg	taccatgctg	acttcttggt	120
atcttttaag	gcctaatttt	cccttccttg	agattactgt	agtgtgttcc	agctaatttc	180
tatttggaag	cgagttggaa	cagctgaaaa	ctagggtatta	ttgaaggcaa	agcagcctca	240
cgtcagtttt	ttatcagctc	atttggaag	tttttttttt	tttttttttt	ttttaattaa	300
ttagaaagta	ggctgggcac	ggtggctcat	gcctataatc	ccagcacttg	gggaggccga	360
ggatctcttc	tctggtggat	cacttgaggg	caggagttaa	gagaccatcc	tggccaacat	420
gatgaaacc	tgtctctact	aaaaatacaa	aaagtagctg	ggcgtgg		467

<210> 123

<211> 864

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(864)

<223> n = A,T,C or G

<400> 123

gggcctctng	agcatgctcg	agcggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
tcgagcggcc	gcccgggcag	gtactttttt	tttttttttt	tcttttttta	catctgattt	120
taatgcttcg	ttaacttcaa	aaggaaactgg	tagagttcag	aaggtagagct	gttggttttc	180
taaacctctt	cccaggaagg	ggacattgac	acttgaattt	ttgtcacctt	tttctctatt	240
agaaggaaag	tagaaagcct	tactgtagga	tttttaaaaa	aaaaatccat	ctcaccccat	300
attggtctta	aataagtata	gactaattaa	cctaagctac	ctttaacaac	gtagaattta	360
gatgggttca	tatatgtgag	aaaaacctga	atataggaca	ggggtcctac	ttttttcccc	420
acctctgtcg	cccaggctag	agtatatgtg	tgtgatcttg	gcccactgca	acctctgctt	480
cctaggttca	agtgattctc	ctgcctcagc	ctcccaagta	gctgggattg	taagagtatg	540
ccaccacgcc	cagctacttt	ttgnattttt	agtagagaca	gggtttcatc	atgttgacca	600
ggatggntct	ttaactcctg	ccctcaagtg	gatccaccag	agaaggagat	cccttggntc	660
tccccaaagt	cctggggatt	attaggcatt	gaagcccacc	cgtggcccca	agccctacnt	720
tttcttaaat	tgaattttaa	aaaaaanaaa	nnnnnnnnnn	nnaaaaaaa	ccttttcccc	780
aaattgganc	ctgggtttta	aaaaacctgg	acccttnaan	gggcntggnt	tttggccctt	840
tnaaataaat	tnccctaag	gnnt				864

<210> 124

<211> 467

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(467)

<223> n = A,T,C or G

<400> 124

antatgacct	gattacgcc	agcttggtac	cgagctcgga	tccactagta	acggccgcc	60
gtgtgctgga	attcgccctt	tcgagcggcc	gcccgggcag	gtacatgcac	acacacacac	120
acacacacac	acgtgtctac	tgggtcctt	ttggattttt	tagttcaatc	agaaatcacc	180
aaacagatca	ataaagaggc	aatgttaaat	gaccgggaaa	ttggtaatgt	gacatcacia	240
cactgccttt	aagggtgcat	atctaaatcc	aggtagcact	gctgctagca	gaatctgttg	300
tttttaggaga	caagggtggg	ctgggtatgc	tggctcgtgc	ctataattcc	agcactttga	360
gagggcaagg	caggagaacc	acattaggct	aggagttnan	gaccagcctg	ggcaacatag	420
tgagatccca	tctctacaaa	aataaaaaaa	ttagctttcc	agctgct		467

<210> 125

<211> 833

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(833)

<223> n = A,T,C or G

<400> 125

gnnnnnnnnn	ngnnntnnnn	ntttaataga	tgagcgtacg	gngcctgtaa	agcatgctcg	60
agcggccgcc	atgtgatgga	tatctgcaga	attcgccctt	agcgtggtcg	cggcccgaggt	120
acctgatata	gtttaacttt	cctctttatc	tttcttagag	atacttcaca	tgtgggacag	180
attatatatt	ggaaagatgt	ccacaacaat	attgcccata	ccacattgct	catcttataa	240
tgtgatctca	agactcctcc	cactgagtgg	gtgagaaggg	acttatacca	ctttcatttg	300
aatctaggca	gatctgtgtg	acagccttga	ccaatagagt	atgggttaaag	tgatgcccc	360
aggcatgggt	gccatacctt	ggaatcctgg	tttttcgggg	aggcccaggt	gggggtagag	420
gtgaggggga	tgattgtttg	aacacacgag	tttgagacta	ccctgagcaa	cacaatgaga	480
ccctattttt	ttttaatgat	ttctgaagca	gaatcacaaa	tagccgtgcg	tttttttctt	540
gcgcttttag	gatacttact	tttaaaaccc	agtcaccata	ttgttaggaa	gcccacacag	600
cacacataga	gagacatacg	gagaagccaa	ccatagaggt	tcctgttgac	agctcantcg	660
aggtcttaac	caacagtcac	acttagctgc	cagccatatg	agtgaagggc	ttncagatga	720
ttctaacgcc	cagcagttgg	gtccccccag	cctgtaagcc	ttcccagctg	aggcctnaca	780
atgatggagc	anagaaaagt	gtccctgtcc	aaattctgac	ccatgataaa	atg	833

<210> 126

<211> 788

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(788)

<223> n = A,T,C or G

<400> 126

nnnnnnntnn	nnacanttga	ctgataccca	acttggtacc	gactcggatc	cactagtaac	60
ggccgccagt	gtgctggaat	tcgcccttag	cgtggctcgc	gccgaggtac	gcgggggac	120
agagagaagc	gaggttctcg	ttctgaggga	caggctcgag	atcggtgaa	gagagcgggc	180
ccaggctctg	tgaggaggca	agggaggtga	gaaccttgct	ctcagagggt	gactcaagtc	240
aacacaggga	accctctttt	tctacagaca	cagtgggtcg	caggatctga	caagagtcca	300
ggttctcagg	ggacagggag	agcaagaggt	caagagctgt	gggacaccac	agagcagcac	360
tgaaggagaa	gacctgcctg	tgggtcccca	tcgcccaagt	cctgcccaca	ctcccacctg	420
ctaccctgat	cagagtcac	atgcctcgag	ctccaaagcg	tcagcgctgc	atgcctgaag	480
aagatcttca	atcccaaagt	gagacacagg	gcctcgaggg	tgacacaggct	cccctggctg	540
tggaggagga	tgcttcatca	tccactttca	ccagctcctc	ttttccatcc	tcttttcctt	600
ctccttcntt	ttctnctnct	nctnctgcat	ctntaatacc	aagcacccca	naggagggtt	660
ctgctgatga	tgagacaccc	aaatncttcc	anagtgcctna	anatagcctg	ntncttcccc	720
cttnggncnt	gctttccctt	ncnttanatt	naatnctgat	taagggggttc	cancanncca	780
aaaggaat						788

<210> 127

<211> 766

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(766)

<223> n = A,T,C or G

<400> 127

gggcctctna	agcatgctcg	acggccgccca	tgtgatggat	atctgcagaa	ttcgcccttt	60
cgagcggccg	cccgggcagg	tactccaggt	agttttcctg	cacccaatct	tgggtgagca	120

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gcttcctggg ctccccataa atgaggtgct ccatcccatc atacagcccc atcatattca 180
gtgcttccca gatgacctcc tcaggggtgc agtagccctc tatgaagatt atgcttagga 240
taagtatgag aatgccagtc ttgggcagtc tctggacatc actcagcatc ccatcatagg 300
tgaggccag ggaggtgaca aggacaaagg agtggccagt gggatccact tcctttacat 360
caatgccaaa gaccagcagc atgcactcgg aggcttccact aaacaacaaa gggaaagtgg 420
cttcataatt ttttatgaca ctctccagta tttctgcctt tgtgatcggc tccttcattt 480
gataactgaa gagcagaaac tgcaccaaact cagtcacctt ttcattctatc tcacttctgg 540
gtaaagactc actgtctggc aggacctgta ggggtgcttg actctcctcc ttttggctgc 600
tgagagccctc atcagattga tctaattgaa ggggaagcaac gaccganggg gaggagcagg 660
ctatctgagc actctgggga ggatttgggt tctcatcatc agcagaaacc tncctctggg 720
tgcttgggta ttagangatg gcaggaagaa gaanganag aggaag 766

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<210> 128
<211> 779
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

```

```

<400> 128
gnnnnnntnnn nacactantt tnnagaccgn canctggtag cgactcggac cactagtaac 60
ggccgcccagt gtgctggaat tcgccctttc gagcggcccg cccgggcagg tactcctcat 120
cctgcgtttg gtctccaggt gtgccttttc tgccgtgttc ctaatatattt gattcctgtc 180
ttgaaaaaag cacctgctgc acagtaagcc cagggatgtg gcagctgcag cgggcttggc 240
tttgtgagga accgggtgtg tccacgttgg gggaacatca tacttgatac acacgttttt 300
atttgcacaa agaaaatgct atttttggag ccagaatttt catgtctgat ttatggtgat 360
tttcttaaga accagaactg ctggcagaaa gggggcacc acacgcttag atagccgatg 420
tcttattaga gggcagtttg tggttcctga tttggaaatt aatattctcc aaacattcca 480
gtccaatgaa agttttatcc gctttcccat gtaaaaattc ttcccatgag agtgacttga 540
tcctcacaat cccgttgaa tcgtgtgtga gtccctacagt attaggttca gcattgccgt 600
ctncaagtgc tctttgtagg gaaacagttt ctggctcatga caagcttcca cttccatctg 660
atcctggcct ggcctggaaa cagagcacat gtgtttgagg atggcngtgt ttggggacag 720
gacatgancg tattgtgtgg ggctgctagg acangcgtgg tgtggtgggg gantgtccn 779

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```

<210> 129
<211> 774
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

```

```

<400> 129
ttnnnantgg gcccntngag catgctcgac ggccgccatg tgatggatat ctgcagaatt 60
cgcccttagc gtggtcgcgg ccgaggtacc tgggtgggac tgggaaactg tgaaacaagt 120
agactgactt ggacactccc ccaccacacc acgctgttcc tagcagcccc acacaatacg 180
ctcatgtcct gtccccaaac accgccatcc tcaaacacat gtgctctgtt tccaggccag 240
gccaggatca gatgggaagt ggaagcttgt catgaccaga aactgtttcc ctacaaagag 300
cacttggaga ccgcaatgct gaacctaaata ctgtaggact cacacacgac ttcaacggga 360
ttgtgaggat caagtctctc tcatgggaag aatttttaca tgggaaagcg gataaaactt 420
tcattggact ggaatgtttg gagaatatta atttccaaat caggaaccac aaactgccct 480
ctaataagac atcggctatc taagcgtgtg ggtgccccct ttctgccagc agttctgggt 540
cttaagaaaa tcaccataaa tcagacatga aaattctggc tccaaaaata gcattttctt 600
tgtgcataata aaaacgtgtg tatcaagtat gatgttcccc caacgtggac acaccccggt 660
tcctnacaaa gccaaagccc ctgcagctgc cacattctct ggcttactgt gcacangtgc 720
tttttttaag acaggatcaa atnttaggac ccngnanaan gcaacacctg gaga 774

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<210> 130
<211> 803
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(803)
<223> n = A,T,C or G

<400> 130
ggnnnnntnn anacgnatcn gacctganta cgccaacttg gtaccgagct cggatccact 60
agtaacggcc cgccagtgtg ctggaattcg cccttagcgt ggtcgcggcc cgaggtacct 120
tggaagtatt gtcattaata taggctggtt cgtcaaataa agcaaaacct tgcaatatca 180
gctagattta cactccggga cgttgcccaa aggttaggaag aaagcagagg gaaatatttc 240
agtcacattt tccaaagtca ttatcaaaat ctgtgaggaa gtttaattctt ccaaagagtc 300
aatgtcagac atcaggcctc tgttgccctgc ttctctcgag gcactagatt aggagtcttc 360
aataagagac ttaacatgag gtatatggaa gatgaggcac cgagataagt tcatcattag 420
gtgtgagcac tgctcacctt tgctggcaag ttctccttaa gggcctgaag cacagggtgc 480
caaagaaaag cgttaagtcc atcttaatat aatctatgtg gtatatgatg tggtcagccc 540
ccggtctgtg atcagcaaga acctacagca cagattatgc cctgcccact tcaatgaata 600
cctactctcc tncattctcc atcacttttt ttgctatcaa gactccggac cttgcccattg 660
gagaagttta gagaggaaact cttgtggaga gctggtttat tttctgccct gtgcgacgag 720
tttcagcttg gccaaagaaa ggagtcgaag ttattaaaaa gcatacaaat ggtagatctt 780
ccaggcttgg ntttttttgt ttt 803

<210> 131
<211> 818
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(818)
<223> n = A,T,C or G

<400> 131
antgggcctc tnnagcatgc tcgacggcgc ccatgtgatg gatattctga gaattcgccc 60
ttngcccgtt ttccagncgg gaaacctgtc ntgccagntg catatgatga tcngccaacg 120
cgcggngaga ggccgnttgc gtattggcgc ctcttcgcgt tctcgcgtca ctgactcgct 180
gcgctcggcc gttcngctgc ggcgagcggc atcagctcac tcaaaaggcg taatacngtt 240
atccacagat caggggatan cggcaggaaa gaacatgtga ncaaaaggcc agcaaaaggc 300
caggaaccga aaaaaggcgc ctttggttggc gtntnaccat aggctcnncc cccttgacna 360
gcttcacaaa aatctacgct cagntcccag gtgcnaaatc ccganaggac tntaangatt 420
cnnggnnttt ccccttgaan nctnctant gcgctctcct gtnccaacct tgccgtttac 480
cggataacctg nccgcctnna tnccttcgng aagcntggct tttnaatngg ctcaactttt 540
gggnatctaa aancggntta ggcngnncgt tnnaaantng nntttttgcn caaacccctt 600
gtttaaactn acccatgngc attatcccgg aaacttttgg tnttngaate caaccnggna 660
aanacacnan ttaatnngcc nttggcntga aacccttgg ggtnaaccat ggatttttggc 720
ncnaccnagg gtnntttttn nggcnggtnc ntacccggag ttctttnaaa acnggggtggg 780
cncttanacc tatcnggnnt tcccctttan aaaaaaat 818

<210> 132
<211> 777
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(777)
<223> n = A,T,C or G

<400> 132

acnntatgac	ntgantaccc	aacttggtac	cgactcggac	cactagtaac	ggccgccagt	60
gtgctggaat	tcgcccttcg	gcccgcgccg	gcaggtagct	ggaaaataac	ttctttcttt	120
tcctctagat	tttcgaagaa	gcaaataaat	caagaataga	aacctatata	taggaggttg	180
ggcctcctgc	aaagaatgaa	gcactttttg	ttaaatacag	gagaggctac	ttggctgcac	240
taatatgtgc	tttttgaat	cttatagagt	gtcaccaagt	tgaactttgg	aatggcttga	300
atcatccctg	gagcatctgt	gcccggcagt	caggagttag	tgcaccgcct	cccaccacgc	360
cccattgggc	ctcacaccct	cttcattcct	ttcccatga	ggcaggcaaa	cacggtcatg	420
accattttgg	ggttcacttc	aaccaggtct	tctggcaggg	catacactct	tgctccaatt	480
tttcggggcca	tagagatggc	atattttgca	ttgttgagtt	tctcatcatc	attcagattt	540
tctgtcttca	gaaggtcata	gttaatggaa	cctgggttga	tggcatcgat	gangtccaga	600
acaggcagac	ttgtacctcg	gccgcgacca	cgctaagggc	gaattctgca	gatatncatc	660
acactggcgg	gccgntcgag	catgcatcta	gangggccaa	ttcgccctat	agtgagtcgt	720
attacaattc	actgggccgt	cgttttacaa	cgctcgtgact	gggaaaaccc	tcggttn	777

<210> 133

<211> 775

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(775)

<223> n = A,T,C or G

<400> 133

ntgggcctct	nnagcatgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtggtc	gcggccgagg	tacaagtctg	cctgttcttg	acctcatoga	tgccatccaa	120
ccaggttcca	ttaactatga	ccttctgaag	acagaaaatc	tgaatgatga	tgagaaactc	180
aacaatgcaa	aatatgccat	cttatggccc	cgaaaaattg	gagcaagagt	gtatgccctg	240
ccagaagacc	tggttgaagt	gaaccccaaa	atgggtcatga	ccgtgtttgc	ctgcctcatg	300
gggaaaggaa	tgaagagggt	gtgaggccca	atggggcttg	gtgggaggcg	gtgcactcac	360
tcctgactgc	ccggcacaga	tgctccaggg	atgattcaag	ccattccaaa	gttcaacttg	420
gtgacactct	ataagattcc	aaaaagcaca	tattagtga	gccaagtagc	ctctcctgta	480
tttaacaaaa	agtgcttcat	tctttgcagg	aggcccaacc	tnctatatat	aggtttctat	540
tcttgattta	tttgcttctt	cgaaaatcta	gaggaaaaga	aagaagttat	ttccaggta	600
cctgccccgg	cggccgaang	gcgaattcca	gcacactggc	ggccgttact	agtggatccg	660
agctcggtcg	caagcttggc	gtaatcatgg	tcatactgt	ttcctgtgtg	aaattgntat	720
ccggtcacaa	ttcccacaca	tacgaacccg	gaagcataaa	gtgtaaagcc	tgggg	775

<210> 134

<211> 772

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(772)

<223> n = 'A,T,C or G

<400> 134

acnnttgacc	tgataccag	ctgggtccgac	tcggacccta	gtaacggccg	ccatgtgctg	60
gaattcgccc	ttgagcgcc	gccggggcag	gtctataagt	ctttaaattg	ggtcgtgttt	120
ttagcaggta	agactaattt	atctcttctc	cagtgaattg	atgctgggtg	gattcgattt	180
cacatcacaa	cttatattga	tagggatttc	cttcccaaga	gtaataaatt	gtttggtttg	240
atataaactt	gggggcatat	tcaatatcaa	ggtacttttt	tttttttttt	aagttttagt	300
tcagaataac	attaattttg	agagattgag	gtaaagaacc	ttaactaatg	ctaaggagtt	360
tatttttgatt	aacatagggt	attctgacca	ccacctcttc	cttccttaat	ctccttagaa	420
tctgacagtc	tcaaagctgt	cacacaaatt	agactaattt	tgacactttg	aaatgaaaac	480
ttcaagggaag	aagttagccac	ggacagttat	gtttataatc	agtaggtggc	actctttcct	540
caggtagccc	cccattttca	catgatgtgt	ttgaaggtta	aatgccccaa	aagtgtctgag	600
tcagctataa	aactaagtcc	ctgaattcca	tggccctttt	aaatatgtaa	tcattcaaga	660

ttgaaaaaaa aaattaagca ttttttgntt gnttgcttgg ttggttttga gacngagttt 720
cactcttgnt ggccaggctg gaggcgcaatg gcgccatctn actcactgna ag 772

<210> 135
<211> 784
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (784)
<223> n = A,T,C or G

<400> 135
ntgggcctct nnagcatgct cgacggccgc catgtgatgg atatctgcag aattcgccct 60
tagcgtggtc gcggcccagag gtacttcttt tgaataattc agtattttta aaatgcaagc 120
caggcacagt ggctcacgcc tgtaatccag cactttggaa ggccgagggtg gggggatcac 180
gaggctcagga gttcaagacc agcctggcca acatggtgaa acctcatctc tactaaaaat 240
acaaaaacta gctgggcatg gtggcgggca cctgttaacc cagctacttg gagggctgaa 300
ggagaattgc ttgaatccgg gaggcagagg ttgcagttag ctgagatggc gccattgcac 360
tccagcctgg ccaacaagag tgaaactccg tctcaaaaac aaacaagcaa acaaacaaaa 420
aatgcttaat tttttttttc aatcttgaat gattacatat ttaaaagggc catggaattc 480
agggacttag ttttatagct gactcagcac ttttggtggc atttaacctt caaacacatc 540
atgtgaaaaa ggggggctac ctgaggaaaag agtgccacct actgattata aacataactg 600
tccgtggcta cttcttcctt gaagtgttca tttcaaaagt tcaaaattag tctaatttgt 660
gtgacagctt tgagactgtc agattctaag gagattaaag gaanggaaga ggtggtggtc 720
agaataacct atgttaatca aaaataaact tccttagcat taagttaang gtctttacct 780
caan 784

<210> 136
<211> 768
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (768)
<223> n = A,T,C or G

<400> 136
acnttgantg naccacttg tccgactcgg atccctagta acggcgagct gtgctggaat 60
tcgccctttg agcgcccgcc gggcaggtag tttttttttt ctttttttac atctgatttt 120
aatgcttcgt taacttcaaa aggggaactg gtagagtcca gaaggtagagc tgttgttttt 180
ctaaacctct tcccaggag gagacattga cacttgaatt ttggccacct ttttcctcat 240
tagaaggaaa gtagaaagcc ttactgtagg atttttaaaa aaaaatccat ctcaccccat 300
attggtctta aataagtata gactaattaa cctaagctac ctttaacaac gtagaattta 360
gatgggttca tatatgtgag aaaaacctga atataggaca ggggtcctac tttttccccc 420
acctctgccg cccaggctag agtatagtgg tgtgatcttg gccactgca acctctgctt 480
cctaggttca agtgattctc ctgcctcagc ctcccaagta gctgggattg taagagtatg 540
ccaccacgcc cagctacttt ttgtattttt agtagagaca gggtttcac atgttgccca 600
ggatggtctc ttaactcctg ccctcaagtg atccaccaga gaggagatcc tcggccttcc 660
caagtgtcgg gattatagga atgagccacc gtaccacgcc tactttctaa ttaattaaaa 720
aaaaannnnn nnnnaaaaaa acttnccaaa tgactgataa aaaactgc 768

<210> 137
<211> 777
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (777)

<223> n = A,T,C or G

<400> 137

ttgggacctt	ngagcatgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtgggc	gcggccgagg	taccatgctg	acttcttggg	atcttttaag	gcctaatttt	120
cccttccttg	agattactgt	agtgtgttcc	agctaatttc	tatttggaag	cgagttggaa	180
cagctgaaaa	ctaggtatta	ttgaaggcaa	agtagectca	cgtagctttt	ttatcagctc	240
atttgggaag	tttttttttt	tttttttttt	ttttttaatt	aattagaaag	taggctgggt	300
acggtggctc	atgcctataa	tcccagcact	tggggaggcc	gaggatctcc	tctctgggtg	360
atcacttgag	ggcaggagtt	aagagaccat	cctggccaac	atgatgaaac	cctgtctcta	420
ctaaaaatac	aaaaagtagc	tgggcgtggg	ggcatactct	tacaatccca	gctacttggg	480
aggctgaggg	aggagaatca	cttgaacctc	ggaagcagag	gttgcaagtgg	gccaagatca	540
caccactata	ctctagcctg	ggcggcagag	gtggggaaaa	aagtaggacc	cctgtcctat	600
attcaggttt	ttctcacata	tatgaaccca	tctaaattct	acgttggtta	aggtagctta	660
ngttaattag	tctatactta	tttaagacca	atatgggggt	agatggattt	ttttttaaaa	720
atcctacant	aaggctttct	actttccttc	taatgaggaa	aaaagtggca	aaaattt	777

<210> 138

<211> 950

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(950)

<223> n = A,T,C or G

<400> 138

nnnnnnnnnn	nnnnnnnnnn	ntnnnnnnnn	nnnnnaaanc	cnnnnnttna	nnngnnaaac	60
cccattggna	aanttaaccn	ccccccaaaa	gccctttnng	ggtttaaccc	ccgaaagcct	120
tccgggggna	atccccaaact	ttaagttaaa	acngggggccc	cgggcccaag	ttggttggcc	180
tttgggggaa	aatttccgcc	ccctttccga	agccggggccc	ggccccgggg	gccaaagggta	240
ccatgggaat	ggttaccctt	tggcaagaac	tgggtcaaac	ctggaaattt	tgggtatttt	300
gctttggaca	ttggccctaa	attaattaag	tttcaagggt	gtcaggcttt	acccactttt	360
tggctcggca	acatgcagaa	gagacagtgc	cctttttagt	gtatcatatc	aggaatcatc	420
tcacattggg	ttgtgccatt	actggtgcag	tgactttcag	ccacttgggt	aaggtggagt	480
tggccatatg	tctccactgc	aaaattgctg	attttccctt	tgttaattaat	aagtgtgtgt	540
gaagattctt	tgagatgagg	tatatatctc	actcttcac	aaactataag	tttttttaag	600
taaaagaaaa	tttattatga	aactaaagga	ataaaagaat	gaccactcca	taggcagaga	660
aacgtcactt	taagggtttg	acgtcaattg	atttttgtcc	aaatcaataa	ttactgcaat	720
gattgaaaaa	tgattattac	taagtttgtt	ttcattgtct	caaggtctgc	tgaactctgg	780
atccaggctg	tgtaaacagg	gtagtgtggg	gcctcctgta	cctcggccgc	gaccacgcta	840
agggcggaatt	ctgcagatat	ccatcacact	ggcggccggt	cgagcatgca	tctagagggc	900
ccaattcgcc	tatagtgagt	cgtattacaa	ttcactggcc	cgcgttttag		950

<210> 139

<211> 779

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(779)

<223> n = A,T,C or G

<400> 139

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tagcgtgggc	gcggccgagg	tacaggaggc	accacactac	cctgttgaca	cagcctggat	120
ccagagttca	gcagaccttg	agacaatgaa	aacaaaactta	gtaataatca	tttttcaatc	180
attgcagtaa	ttattgatgt	ggacaaaaat	caattgacgt	caaaacctta	aagtgcaggt	240
tctctgccta	tggagtgggc	attcttttat	tccttttagt	tcataataaa	ttttctttta	300
cttaaaaaaa	cttatagttt	gatgaagagt	gagatatata	cctcatctca	aagaatcttc	360

acacacactt	attaattaca	aaaggaaaat	cagcaatttt	gcagtggaga	catatggcca	420
actccacctt	acccaagtgg	ctgaaagtca	ctgcaccagt	aatggcacaa	accaatgtga	480
gatgattcct	gatatgatac	actaaaaagg	gcactgtctc	ttctgcatgt	tgcagacaaa	540
aagtgggtaa	gctgacactg	aaactaataa	ttaggcaatg	tcaagcaa	acaaattcag	600
gttgacagtc	tgcaaagtaa	catccatgta	cctgccccgg	cngnccgctc	gaagggcgaa	660
ttccagcaca	ctggcgggccg	ttactagtgg	atccgagctc	ggtaccaagc	ttggcgtaat	720
catgggcata	gctggttcct	gtgtgaaatt	ggtatncgct	cacaattnc	acaacatag	779

<210> 140

<211> 779

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(779)

<223> n = A,T,C or G

<400> 140

gcccntagag	catgctcgac	ggccgccagt	gtgatggata	tctgcagaat	tcgcccttag	60
cgtggctcgg	gccgaggtac	caggtgggct	gacgcacatc	ccctaaacat	tctggatctc	120
ttactcatcg	tgaaaggcag	acgctctaag	tctaaagtct	agggtaggag	tttccattct	180
ttggaaaacc	aaagatgggt	actcttctta	atgaaactga	gaagaaggta	tctacagaaa	240
acactgaatt	taaaacaaatt	atgaccttgt	ttggtgaagc	catcaaggac	ccaagatata	300
tcaaagaaca	acatctctgt	attggcctac	aggttcagag	tgttttgagg	tctgtttaag	360
cactaatagg	attttaggcc	agcatccagt	cagaagagat	agttcacaga	ctcagagttg	420
gaaacagatt	aaaaaaaaaa	agatgtcaac	atagaaaatg	atgatagagt	ttagttaaaa	480
aaattcacac	ataaaattac	agttaaaaaa	attcacacac	aaaatagagt	gtttgcatag	540
caagacatta	ttgcccttca	gcctggcaga	aaaacataaa	ctcaggtgta	tattttataa	600
taaacattgt	attgaatgct	aagaatgata	cactgttgaa	catctcctga	atgggttgcc	660
ttcttgtaaa	tcataccaat	tgtttagaca	attgaaattc	caagctcttt	ctcttctccc	720
atataaaaac	caacagaaac	anggaggctg	ttagtagcaa	gctcctcatg	ggaaanggt	779

<210> 141

<211> 986

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(986)

<223> n = A,T,C or G

<400> 141

aanccnnnnn	ntttatttgg	gnaaacccaa	ttgggnaaaa	ttnaaccn	cccccnaaa	60
ngcccttttn	gggggttnaa	ccccccggaa	aaccctttcc	gggggggaaat	ttcccaacct	120
ttaaagnttt	aaaaacccgg	gggccccggg	cccccaaagt	ttgggttggc	cnttggggga	180
aaaatttttt	ccgggcccc	cnttttaaag	cccgggttgg	gtttccggcc	ngggggcccc	240
gggaaagggt	tnaccctttt	ttttttaact	tttttnnmtt	tccttttttn	nttccttttt	300
tttctttttt	tttttcttgg	gtntnnmttt	ttttttcaat	tttttggttt	ttgggtttttg	360
gttatggttt	ttttagaaca	gggggtccac	tctgtcaccc	aggctggagt	gcagtgggtgc	420
aatcacagggt	cactgaaacc	tcccacctag	ctgggactag	agggtgcaggc	caccacacca	480
gctaattttat	gtaatttttg	tagagacgag	tttcaccacg	ttacctaggc	ttgtcttgaa	540
cacctggggt	caagcaatct	tccagcccca	gcctcccaaa	gtgctgggat	tacaggtata	600
aaccacaatg	cccccggttt	tactctttac	tgcatecttc	ccatcagtat	taattcctca	660
gaaatttagt	accctgtgct	ttcattcagt	atcagtaacc	ctgcaatgat	ttttacaaat	720
atctttttct	agtgggtttt	ttacttagag	gaaagaactt	tgtaatagct	cttaatgttt	780
atatataaga	gaagacagaa	tggaatatgt	tttttgaaat	caaataatgc	atgatgtaaa	840
gaaaaaactt	taaaacttaa	tgagtanggt	tgtcctgaat	tacactggta	actctctact	900
tctttattaa	agaagttata	gtaagatgcc	tttgntacc	tgatttcagt	gtacctgccc	960
gggcccggccg	ntcaaaaggg	cgaant				986

<210> 142
<211> 780
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 142
gggcccgtan agcatgctcg agcggccgcc atgtgatgga tatctgcaga attcgccctt 60
tcgagcggcc gcccgggcag gtacactgaa atcaggtaac aaaggcatct tactataact 120
tctttaataa agaagtagag agttaccagt gtaattcagg acaacctact catttaagtt 180
taaagttttt tctttacatc atgcaatatt tgacttcaaa aaacattttc cattctgtct 240
tctcttatat ataaacatta agagctatta caaagttctt tcctctaagt aaaaaaccca 300
ctagaaaaag atatttgtaa aaatcattgc agggttactg atactgaatg aagcacaggg 360
gtactaaatt tctgaggaat taatactgat ggaaggatg cagtaaagag taaaaacggg 420
ggcattgtgg tttatacctg taatcccagc actttgggag gctggggctg gaagattgct 480
tgagcccagg tgttcaagac aagcctaggt aacgtgggga aactcgtctc tacaaaaatt 540
cataaattag ctgggtgtgg ggctgcacc tctagtccca gctaggtggg aggtttcagt 600
gacctgtgat tgcaccactg cactccagcc tgggtgacag agtgggaccc tgtctaaaaa 660
aaacataaca naacanaacn naatgaaaaa aaaaacaaga aaaaagaata gaaaaagaaa 720
aaagtnaaaa gtncctcggn cgcgaccagc ctaagggcga attccagcac actgcggccn 780

<210> 143
<211> 794
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(794)
<223> n = A,T,C or G

<400> 143
nnnnnnnnnn nnnacnnttg actgataccc aacttggtac cgactcggac cactagtaac 60
ggcccgccagt gtgctggaat tcgcccttcc gagcggccgc ccgggcagggt acagaaaagaa 120
gagccaggat attctttgtt ttccctaagcg tagctgtgag caacattatc tctcctactg 180
gcttccttga ggtatgagag tcatcattac atctgtgtgc tttgtcaagt tatatgtcac 240
aatccacct gtgggtagag aacaagcaca agagtcacat caactgtgtg ctgggccagg 300
gttatgtcac aatcttccct gagagcatgc accaggcaga agagtcacat cacagggttc 360
tcaaccagag atgttacaat cctctcctga aagcaggaca caggaaaaag agtaagatca 420
cctgcatgct gggctcagat atatgtcaca agactcactg tgggcaaagt ccagaaggac 480
agacagaaca gctggttgc tgacccagca atatgtcaca atcttctcta tgggcagaat 540
gcaggcagaa gtagagggtc tcatcttcca ggtgatggat taaaaaata catcccaagg 600
ctctctgtgg gaaagggtc angcagaac tttccaacc ctangtgtt gtttcagtga 660
tatgtcaca ttaacaaaa tatgcaggt tcaagcaagt gagtnaagtc atatcaccta 720
nggtgcttgg tccanaaatc tgncaaatc ttttttttt ttttggcatg cccagcngaa 780
ttgaaaagtc ncan 794

<210> 144
<211> 782
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(782)
<223> n = A,T,C or G

<400> 144

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cnannngggcc cntagagcat gctcgacggc cgccagtggt atggatatct gcagaattcg      60
cccttagcgt ggtcgcgggc gaggtacaat cttggctcac tgcaacctcc acctcccggg      120
ttcaagcaat tctcctggct cagcctcctg agtgctggga ctacaggcat gcaccaccac      180
tcccacctaa ttttgatatt ttgatagaga cggggcttct ccatgttggt caggctgttc      240
tcaaactcct gacctcaggt gatttgactg tcttagcctc ccacagtgct gagcttatag      300
gcagggtgcca cgacacctgg ctggaatcat ttatttcaac atatctctgg gtccaacaac      360
atgggtgatgc aactttcctg catgggacct ccacagaaa tactctaata catcttttca      420
ttcattatct tgggtgatgtg acttttctat tctgcttggg cactgcaaaa aaaaaaaaaa      480
aagattgtga cagatttctg gaccaagcac ctagggtgata tgactttact cacttgctcg      540
aaacctgcat attttgggta ttgtgacata tcaactgaagc aaacacctag ggggtggaaa      600
gtttctgctc gagcccttcc acagagagcc ttgggatgta tttttttaat ccatcacctg      660
ggagatgaaa cctctacttt ttgctgcat tctgccata gagaagattg tgacatattg      720
ctgggtcaag caaccagct ggtctgctgt cctnttggac tttgccaca agtgagtttt      780
gn

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<210> 145

<211> 780

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(780)

<223> n = A,T,C or G

<400> 145

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annnttgacc tgatacccg cttggtaccg agctcggatc cactagtaac ggccgcccagt      60
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cttttttttt ttggacatct gttttcactc ttaggctttt aaacaatagt tattgctttt      180
atccctctca gattctaata actgagagcg atggggctat attgaatctc tgtatgcaact      240
gagaactgag ctatgaagag gatcttatta aactgctggg ctgactttat ggattgacac      300
tgttcccttc ttttattgtg aaaaaaaaaa aaaaccctga aagtcttggg aacccctaa      360
agtcttttgg gaatcctcaa aaagcatggg aagttaagta tttagctaca taaatgttgt      420
aagatcatat cttatgtata gaagtaataa gaccatttgg aattactgga ctaattgaat      480
agttaagggt tctattcggg acaataaaat gtattttgaa agtgctgcta actattgatg      540
ctgacagtggt ttcactccta tgagtgacct aaacatatta taaatatgtg gtaaaaggaa      600
tggagcctgt ggggttgagc agaatgttgg actttttttt tnnnnnnnnn ntttttngc      660
ttncatttng atngataacg atttcnggat tncctttaa nncncngang gtttggaac      720
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<210> 146

<211> 778

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(778)

<223> n = A,T,C or G

<400> 146

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ttgggcccct agagcatgct cgacggccgc catgtgatgg atatctgcag aattcgccct      60
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agcatgtgtg ttttgcttct cagattcatt gtcaactcac ttgcataaag tctcagttg      180
tttttaagta attgttttac tatggatata ttaaaccatac agaataaaaa agggaataaa      240
catacaattt ggcaaaccct ctactgagcc tttaaaaata ttagaagggt ggtattaaac      300
caggtaactt acggatttgg aaaaaaaaaa aaaaagaaag cattgaatat ggctggggcg      360
ttctctgggg atccttgggc agaccagtt tgccccgatt tctcactgta gttttcaaga      420
ataactgtag gaggcggtgg gagtgcagca tcttgagata agggagacga gccagaacag      480
cgccgggcaact gttccagccc ccctagaaat gggttgatct tcagtgtctc agctcagtg      540
gtcatgttcc acccagcatg taaaagccta ggatcggagg cttccccagg gttcgtcagc      600
tgtggcacaa tagggcccggt tgcaataaag attctattcc tgtcagacag tttcgtgagt      660

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ttgtggggga acactcaccc tagcttctgn tgnctcttca tgcctgtgtg ttcctaataca 720
acttttttgn gtaacttggg gttttgaaaag tgtcaccagc acacaatgga acctgtcn 778

<210> 147

<211> 784

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(784)

<223> n = A,T,C or G

<400> 147

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tgtgctggaa	ttcgcccttt	cgagcggccg	cccgggcagg	tacttttttt	tttttttttt	120
tttttttttg	ggattgaatc	aacatgcttt	aataggaaaa	gatgtatggg	ctatatatgn	180
atcaatctgg	ngaancctcg	ntctaataaa	gggtcctttt	cttttctatg	atacacacag	240
ncacgctgat	aatatgcnaa	tgaacatttt	cctttatgnc	tctncanata	atggttattg	300
gctgaggnaa	attaaattcc	caccanggnt	tgctgncagt	attttaacac	ccacattagt	360
atatgcntnc	agggtcataa	ccccctaaaa	tccatnatgc	aaccttatta	atctggcttg	420
ggantccngg	ttaatgcttg	gattttanttc	ctgattacac	tncntngaaa	agtgagacat	480
ttgncattcc	caactttggg	aaaaccaact	tatattcaac	cntntnaatg	aaggccatct	540
tgatggntcc	aacactaatt	tttatgatgc	aaattttatac	acngattttt	gtaaagggca	600
aagtttttaa	agcgtattta	acttgatggg	ttctatcagc	attaatnaaa	tggnatgaa	660
taggcattaa	aaacagttgc	cagtgatnat	ctgcatgaaa	ggaaaaagaa	ccctgcaaat	720
ggctattgaa	nttggaataa	ttgnttttga	natgtaagaa	aatntttaga	aagctcncnc	780
tgng						784

<210> 148

<211> 775

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(775)

<223> n = A,T,C or G

<400> 148

gggcccntan	agcatgctcg	acggccgcca	gtgtgatgga	tatctgcaga	attcgccctt	60
agcgtgggtc	cggccgaggt	acaaaagcact	gtttaaaacc	agtccaagat	acttaaatcca	120
aactgtatca	tgattcttca	ttagaaatct	agacaccact	catggtgggt	tcttacactt	180
taaaaagttg	aggcattttc	agtgtgagca	ttctgaatat	ctcttacata	tcaaaaacaa	240
tacttccaac	tcaatagcca	tttgcagggt	tctttttcct	tcatgcagat	tatcactggc	300
aactgttttt	aatgactatt	catgaccatt	ttattttatgc	tgatagaaaa	catcaagtta	360
aatacgcttt	taaaactttg	tcctttacaa	aaatcagtgt	ataaatttgc	atcataaaaa	420
ttagtgttga	gaccatcaag	atggccttca	tttatatggt	tgtatattag	ttggttttcc	480
cagagtggg	aatggcagat	gtctcacttt	tctatgtagt	gtaatcagga	aataaatcca	540
agcactaaac	aggaatccca	agacagatta	ataagggttg	atgatggatt	ttaggggggt	600
atgaccctgg	acgcataata	taaatgtggg	gttaaaaatac	tgacagcaag	ccctgggtggg	660
aattaattta	cctcagacaa	taaacattat	ctggagagac	ataaaggaaa	atgttcattt	720
gcatattatc	agcgtggctg	ggtgtatcat	agaaaaagaa	aaagaacctt	tttan	775

<210> 149

<211> 783

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(783)

<223> n = A,T,C or G

<400> 149

acnntatgac	ctgatacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgcc	60
agtgtgctgg	aattcgccct	tagcgtgggc	gcggccgagg	taccggatta	aaccagagca	120
aaaactacct	tctgcaggtc	agggagctaa	tgacatggca	ttggccaaac	gttcccgcag	180
tcgaactgct	acagaatgtg	acgttcgtat	gagcaagtct	aagtcagaca	atcagatcag	240
tgacagagct	gctttggagg	ccaaagtga	ggatcttctc	acgctggcaa	aaaccaaaga	300
cgtagaaatt	ttacatttga	gaaatgaact	gcgagacatg	cgtgccagc	tgggcattaa	360
tgaggatcat	tctgaggggtg	atgaaaaatc	tgagaaggaa	actattatgg	ctcaccagcc	420
gactgatgtg	gagtcactt	tattgcagtt	gcaggaacag	aatactgcca	tccgtgaaga	480
actcaaccag	ctgaaaaatg	aaaacagaat	gttaaaggac	agggtgaatg	cattgggctt	540
ttccctagag	cagagggttag	acaattctga	aaaactgttt	ggctatcagt	ccctgagccc	600
agaaatcacc	cctggtaacc	agagcgatgg	aggaggaact	ctgacttctt	cagtgggaang	660
ctctgcccct	ggctcantgg	gaggatctct	tgagtcagga	tgaaaaataca	ctaattggacc	720
attagcacag	tacttcatgg	caatttagac	agtgagtga	atgaggtcta	ccagcccctt	780
ann						783

<210> 150

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(771)

<223> n = A,T,C or G

<400> 150

gggcccctan	agcatgctcg	acggccgcca	tgtgatggat	atctgcagaa	ttcgcccttt	60
cgagcgcccg	cccgggcagg	tactgtgttg	gttctcttcc	atctggtgta	tccgttcagt	120
caggcaagcc	acggacactt	cactggcatt	cccgtgtctc	cccttccggg	agcgctctat	180
gctgggggatg	ccttccgact	ctgaggagga	tggtgcatcc	agcgcatcat	cgctcgatgt	240
gaggggctgg	tagacctcac	tgactcact	gtctaaattg	tccatggagt	tactgtgctg	300
atggtccatt	agtgtatttt	catcctgact	caagagatcc	tccactgagc	caggggcaga	360
gccttccact	gaagaagtca	gagttcctcc	tccatcgctc	tggttaccag	gggtgatttc	420
tgggctcagg	gactgatagc	caaacagttt	ttcagaattg	tctaacctct	gctctaggga	480
aaagcccaat	gcattcaacc	tgctctttaa	cattctgttt	tcatttttca	gctgggttgag	540
ttcttcaagg	atggcagtat	tctgttctcg	caactgcaat	aaagtggact	ccacatcaag	600
tcggctgggtg	agccataata	gtttccttct	cagatttttc	atcacctca	gaatgatcct	660
cattaatgcc	cagctgggca	cgcatgtctc	gcagttcatt	tctcaaatgt	aaaatttcta	720
ogtctttggt	ttttggcagc	gtgagaagat	ccttncttgg	nctcnaagcn	g	771

<210> 151

<211> 778

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(778)

<223> n = A,T,C or G

<400> 151

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acatctgatt	ttaatgcttc	gttaacttca	aaaggaactg	gtagagttca	gaaggtaggc	180
tggtgttttt	ctaaacctct	tcccaggaag	gagacattga	cacttgaatt	tttgccacct	240
ttttctctcat	tagaaggaaa	gtagaaagcc	ttactgtagg	atttttaaaa	aaaaatccat	300
ctcaccccat	attgggtctta	aataagtata	gactaattaa	cctaagctac	ctttaacaac	360
gtagaattta	gatgggttca	tatatgtgag	aaaaacctga	atataggaca	ggggtcctac	420
ttttttcccc	acctctgcgc	cccaggctag	agtatagtgg	tgtgatcttg	gcccactgca	480

acctctgctt	cctaggttca	agtgattctc	ctgcctcagc	ctcccaagta	gctgggattg	540
taagagtatg	ccaccacgcc	cagctacttt	ttgtattttt	agtagagaca	gggtttcatc	600
atgttggcca	ggatgggtctc	ttaactcctg	ccctcaaaagt	gatccaccag	agaggagatc	660
ctcggcctnc	ccaagtgtctg	ggattatagg	catgagccac	cgtacccagc	ctactttcta	720
attaattaaa	aaaaaannnn	nnnnaaaaaa	aacttnccaa	atgagctgat	aaaaacng	778

<210> 152

<211> 772

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(772)

<223> n = A,T,C or G

<400> 152

gggcccntag	agctgctcga	cggccgccat	gtgatggata	tctgcagaat	tcgcccttag	60
cgtggctcgcg	gccgagggtac	catgctgact	tcttggtatc	ttttaaggcc	taattttccc	120
ttccttgaga	ttactgtagt	gtgttccagc	taatttctat	ttggaaacga	gttggaacag	180
ctgaaaacta	ggtattattg	aaggcaaaagt	agcctcacgt	cagtttttta	tcagctcatt	240
tgggaagttt	tttttttttt	tttttttttt	tttaattaat	tagaaagtag	gctgggtacg	300
gtggctcatg	cctataatcc	cagcacttgg	ggaggccgag	gatctcctct	ctgggtggatc	360
acttgagggc	aggagtttaag	agaccatcct	ggccaacatg	atgaaaccct	gtctctacta	420
aaaatacaaa	aagttagctgg	gcgtgggtggc	atactcttac	aatcccagct	acttggggagg	480
ctgaggcagg	agaatcactt	gaacctaggga	agcagaggtt	gcagtgggcc	aagatcacac	540
cactatactc	tagcctgggc	ggcagaggtg	gggaaaaaag	taggaccctc	gtcctatatt	600
caggttttttc	tcacatatat	gaacccatct	aaattctacg	ttgttaaagg	tagcttaagt	660
taatttagtct	atacttattt	aagaccaata	tggggtgaga	tggatttttt	tttaaaaaat	720
cctacagtaa	ggntttctac	tttccttcta	atgaggaaaa	angnggcaaa	at	772

<210> 153

<211> 780

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(780)

<223> n = A,T,C or G

<400> 153

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ccagtgtgct	ggaattcgcc	cttagcgtgg	tcggggccga	ggtagctttt	tttttttttt	120
tttttttttt	tttagttaa	gaatgcttta	ttaatacaaa	tacacacaaa	ctctgaagca	180
ctaagaaatt	taaatactta	tgtcacagca	aacagggtggc	aattcaacat	ccagggtcga	240
cagaatgctt	gaaggagact	gcaacagatt	ggattcccat	ggtaggagag	gcatnttcac	300
aggtgaagg	gggcccagct	gaaacagctt	ttcaagctct	ctctcctcgt	caaggatcat	360
gagaggcact	ccactcaagg	ggaggtgcgc	aatctggtgc	tcttcaggca	ggtcaaaact	420
ctcaaagtct	agaggattga	agggaaagaa	tttttctatt	tctggatagg	catcatctga	480
ggcaggaaca	gagctttttg	ctttaacagt	cttctcagtc	atcttttttg	cagaaaagct	540
tggctgtttt	tgtttgagg	gtcccttgg	ctttacagac	ttttctgtag	ctctgttgac	600
agttcccaaa	gcctttctag	tagctttagg	taaggctgg	ggggcatcga	acgttttgcc	660
aaaacgtggt	gttgaaactt	gagatctccc	atctaangct	ttgattgaan	gtccagaccc	720
cagcttcagc	ccatccttag	caaccacacn	ggtgcctggg	tctncatttt	ccttatnang	780

<210> 154

<211> 770

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(770)

<223> n = A,T,C or G

<400> 154

gncctgttnna	gctgctcgag	cgcccgccat	gtgatggata	tctgcagaat	tcgccctttc	60
gagcgccgc	ccgggcaggt	acgcggggac	cgccgcctca	gatgaatgcg	gctgttaaga	120
cctgcaataa	tccagaatgg	ctactctgat	ctatgttgat	aaggaaaatg	gagaaccagg	180
cacccgtgtg	gttgctaagg	atgggctgaa	gctggggctc	ggaccttcaa	tcaaagcctt	240
agatgggaga	tctcaagttt	caacaccacg	ttttggcaaa	acgttcgatg	ccccaccagc	300
cttacctaaa	gctactagaa	aggctttggg	aactgtcaac	agagctacag	aaaagtctgt	360
aaagaccaag	ggacccttca	aacaaaaaca	gccaagcttt	tctgccaaaa	agatgactga	420
gaagactggt	aaagcaaaaa	gctctgttcc	tgccctcagat	gatgcctatc	cagaaataga	480
aaaattcttt	cccttcaatc	ctctagactt	tgagagtgtt	gacctgcctg	aagagcacca	540
gattgcgcac	ctccccctga	gtggagtgcc	tctcatgac	cttgacgagg	agagagagct	600
tgaaaagctg	tttcagctgg	gcccccttcc	acctgtgaag	atgccctctt	caccatggga	660
atccaatctg	gtgcagtcct	ttcaagcatt	ctgtcgaccc	tggatgttga	attgccacct	720
gtttgtgtg	acatagatat	ttaaatttct	tagtgcttca	gagtttgngg		770

<210> 155

<211> 767

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(767)

<223> n = A,T,C or G

<400> 155

acattatgac	tgatacgcca	gcttgggtacc	gactcggatc	cactagtaac	ggccgcccagt	60
gtgctggaat	tcgcccttag	cgtggctcgc	gccgaggtac	gcggggccgc	tggataactg	120
ccctgggaca	cagcagcggg	aagccgcctg	cagactgaac	ctcactgacc	caggtggaaa	180
tcgttaggtc	atttactgct	aagcagccag	atgaactctc	cctgcaggtg	gctgacgtcg	240
tcctcatcta	tcaacgtgtc	agcgatggct	ggatagaggg	ggaacgacta	cgagatggag	300
aaagaggctg	gtttcctatg	gaatgtgcc	aggagataac	atgtcaagct	acaattgata	360
agaatgtgga	gagaatggga	cgcttgctag	gactggagac	caacgtgtag	tctctcagat	420
ggctctttgt	tactgcaaga	tttgacgac	acttaccggg	ctgggttgggt	ctgggctagt	480
tttattgnta	attttgtcac	agcctattta	attaaaagaa	cgaaaacact	tgccctttaag	540
cttgccaggt	tgttctgtc	tctcatgaga	agagcttgga	tacagttagt	ttgcacagct	600
cagtttttgc	ctaaccacac	acttgacac	ctnctgaggt	acctgcccgg	gcggccgctc	660
gaaanggcga	attctgcaga	tatccatcac	acttggcggg	cgctcgaaca	tgcatctaga	720
nggcccaatt	cgncctatag	tgagtcgtat	tacaattcac	tggnccgc		767

<210> 156

<211> 827

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(827)

<223> n = A,T,C or G

<400> 156

attgggcccc	tagatgcatg	ctcgacggcc	gccagtgtga	tggatatctg	cagaattcgc	60
ccttttcgagc	ggccgcccgg	gcaggtacct	caggaggtct	gcaagtgtgt	ggttaggtaa	120
aaactgagct	gtgcaaacct	actgtatcca	agctcttctc	atgagagagc	agaacaacct	180
ggcaagctta	aaggcaagtg	ttttcgttct	tttaattaaa	taggctgtga	caaaattaac	240
aataaaaacta	gcccagaacc	aaccagcccg	gtaagtgtcg	tgcaaatctt	gcagtaacaa	300
aagaccatct	gagagactac	acgttgggtc	ccagtcctag	caagcgtccc	attctctcca	360
cattcttata	aattgtagct	tgacatgtta	tctccttggc	acattccata	ggaaaccagc	420

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ctcttttctcc atctcgtagt cgttccccct cataccagcc attggctgac acnttgattg 480
gatgaaggcc ancttanncc nactngcagg gagaagtcaa tttgnttgnt taaccnntna 540
atgganccctt accnanttnc acctgggggtc aagtgagggg tcaagtctgc angcggcttc 600
ccgctgctgt ggtccccaagg gcaagttatn cagcggggcc cgcgttacct tgggccgggg 660
accaacgcct taangggccg aaattttccaa gcacacttgg ccggcccgtt acctagtggg 720
atnccgaact tcgggtaccc aaagccttgg gcgttaatca atgggtcaat aggcttggtt 780
tcctggtgtg naaaattggt aatccgggttc acaanttccc cacaaca 827

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<210> 157

<211> 818

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(818)

<223> n = A,T,C or G

<400> 157

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aacactatga cctgatacgc cancttggtg ccgntccgga tccctagtaa cggccgccag 60
tgtgctggaa ttgcgccctt cgagcggccg ccgggcaggt acataatctg gaaatttatg 120
ttacagggtat gcataattgt atatgaaaaa tattaactga gaaattactg agcttcttag 180
caaaaaatat aattatttca gagatatgat acagtttaat atctgccttc ctcaaaaagt 240
cagaaaaataa aaagttttaa attgcatata ttttcatttc ttacatatgt cagaacactc 300
agaattttta ataaaatggt ttaaaacata attataagtt gttactttta tttctatggt 360
tagtgggaacc cacagggtcc tgtatctgat taaatggagg atatattagg agaatttttt 420
agaagaatga cacatgtgac ataccaccat atttgcaaga aaatataact tgatagtaga 480
gtaagttagc tgctttatat gatgaattaa aggcactagc tcttagaaaa aaaaggatta 540
aaatgctgac ttcagtaata atgtaaggag ctctgctctt taacatttcc taattaggta 600
taaactatga tggaaggga aggtggaatg gaagtntcta cntnttacca ttggctttcn 660
ttcatgaaat tggcagnnag cctnccattt cnnnaggnet ttaatnaaaa antttttccc 720
aacttttntt tttcnaaaaa nttnttnncc nnatngnnaa ctgngggtna aaacccggct 780
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<210> 158

<211> 772

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(772)

<223> n = A,T,C or G

<400> 158

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ntgggcccnt nnagcatgct cgacggccgc cagtgtgatg gatatctgca gaattcgccc 60
ttagecgtgt cgcgcccgag gtacttcaac caccctcctt acaaaactct atacccttgt 120
catattaaaa ttgtatgtta tgccaggctt ccctaataca acaaaatctc tgaataaaac 180
ctattaaata tacaatttct atcaacatgc ctgccacaca tgcttaataa ttgcttagtg 240
aatacaagat taatgcatga gtgcctaagt tacttcatct agtataacaa atgacaatat 300
ctcatttggt tcccgaagta tccattatcc attcaagctc tgaagaaagt attaagtata 360
ttcgtcctta agtaattttt tctgcattca aatctcacca ttcaaagtat tttccaacag 420
tagtttcccc aaaagcagtt tacacagtta catttggtat aatttttgaa agaaaagttg 480
ggaaaatttt attagactc tgaatgtagc ttactgccaa ttcataaaga aagcaatgta 540
atacgtagat acttcattcc acctttccct tcatcatagt ttataactaa ttaggaaatg 600
ttaaagagca gagctcctta cattattact gaagtcagca tttatacttt tttttctaag 660
agctagtgcc ttttaattcat catataaagc agctaactta ctctactatc aagttatatt 720
ttcttgcaaa tatggtggtg tgtcacatgt gtcattcttc taaaaaatc tg 772

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<210> 159

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 159

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gggcnccegg	gcccccaaaa	ggtttggtt	tgggcccttt	ggggggaaaa	aattttttcc	180
gggccccccc	ntttttaaag	gcggggttg	gggttttccc	gggcccggg	gccccccgga	240
aaaggggttt	aaccoccttn	aatttttttn	gggtttttcc	cccccaaatn	gggtttccaa	300
tttttttttt	tttaaaaaac	ccaaaanggg	aaaaaaaggg	gttggcccaa	aatttaaggg	360
cctttctttc	aaaagggttt	cctttgggaa	aaaaaaacct	tgggttgggg	gaaaagggtt	420
ncccaaaaat	ttaaaccctgg	gaaaaccttc	tttgggnaac	ccactttaaa	aatttaaant	480
taaanntaaa	tttaaattta	aanttaagga	atgggnttgg	aaaaaaaaag	gaatattccn	540
ttaatttggc	cttaattttt	taatttgnn	atttgactgg	tnatgnnttt	acttttnaaa	600
aacntnctnn	ccaaaaacca	attttacntg	gncnngtggg	atttaccntn	ttcnattacc	660
ngggagttaa	cccaactnga	acntttngga	gggnccagtc	ctccataggg	acctccttca	720
ntntgatnc	caactgcaag	ttcagggaaa	ttctcacatc	ccccttgggc	nataatcttc	780
tttaaaagcn	cctcacagca	ctcactgaan	tctattatat	tatagatang	gtntattatg	840
ggaaanggg	nacanntcaa	natnncccaa	cgcggggana	cacannngnc	agngcccgat	900
gatnttccna	nacacagant	ttgggtgtct	ctggagncgt	ttccccnta	gnaaaatgtt	960
gacanttga	cagagttttt	acccccaggg	gaacgtnaat	caatctttgg	aagtttcaaa	1020
tcag						1024

<210> 160

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(771)

<223> n = A,T,C or G

<400> 160

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ttcgagcggc	cgcccgggca	ggtactgtaa	gttattttct	tccttatctc	ccaatgacac	120
tgttttctac	atgaaaaata	ccattttggc	tttatcaaca	tgttattaat	tcataatatg	180
agagatctat	cagcactatt	tgtaaaaaata	ttcaattaaa	aaaattaaga	tgatttatag	240
ttgtgtggta	aagaatttga	ccttacccaa	aggaggtcag	gcttttgccc	tcagccttaa	300
ggagataatc	ttgtcatacc	caataaaaagt	gttattttaa	agtgaggctg	actacacctg	360
ataatccagc	ttgagggaca	gttatgccag	tttgaccaac	tagatgattt	agggagcttt	420
ctctcccaac	ttcaaagctg	tgatgaatca	aacaggtaat	taatcgatca	tgcttatgta	480
atgaagcctt	gattgaaact	tcaaagattg	attgacgttc	cttggttggt	aataactctgt	540
catgtgtcaa	ttctagaagg	gtaatacgtc	ctgaggataa	cagaagctct	gtgtttggaa	600
tcatectgga	ctctgcactt	tgnttctctc	gctttggctg	attttgatct	gtaaccttta	660
cctataataa	accataacta	taatataata	gatttcagtg	agtgtgtgta	ngctttctag	720
tgattttattg	aacctaaagg	tggtatgtgag	aatttnctga	acttgcagtt	g	771

<210> 161

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(771)

<223> n = A,T,C or G

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<400> 161
acncttgacc tgatcgccag cttggtaccg actcggaccc tagtaacggc cgccagtgtg      60
ctggaattcg cccttagcgt ggtcgcggcc cgaggtacag aatttattat gaaatagctt      120
aatggcaagt ggtaatttag aagaattaag ttatcagata ggagatatat taaaatattt      180
aaaaattgga tatattcttg aagccctttt acacaagtaa tttctataat ttgattgtaa      240
tgaaagtata atataccttg ttactattat cagattaatt tttgaaagta gaattcctta      300
atcaagccaa ggttatgctg ctttataaga aattaatcag gtagtttaac actagagctc      360
attagccaac ctgtatgtag cacaaaaata tcatctctga taaataccta taaatatatt      420
ttattcatac ttttaaatat tttaacaatt aaataaaaac cttatatgta gacaatctgg      480
gctaaatttc catgtatgtt ttgaaaaata atgttagcat gaatagattc atatttaaatt      540
atgatttttaa atactcttaa tagaggagac ataagaaata ttacataaaa agctaagtag      600
catgatacag ctcatgggta ttttctcatc aggaaaacaa ttacttgatt tttttttgca      660
taggattaaa gactgagtat cttttctaca ttcttttaac tttctaangg gcacttctca      720
aaacacagac caggtagtaa atctnactg ntctaaggtc tcacccact t              771

```

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<210> 162
<211> 768
<212> DNA
<213> Homo Sapien

```

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<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

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<400> 162
gggcccctnn agctgctegn cggccgccag tgtgatggat atctgcagaa ttcgccctta      60
gcggccgccc gggcaggtag tacaaaaaca gaataatttt gaagttttag aataaatgta      120
atatatttac tataattcta aatgtttaaa tgcttttcta aaaatgcaaa actatgatgt      180
ttagtgtgctt tattttacct ctatgtgatt atttttctta attgttattt tttataatca      240
ttatttttct gaaccattct tctggcctca gaagtaggac tgaattctac tattgctagg      300
tgtgagaaag tgggtggtgag aaccttagag cagtggagat ttactacctg gtctgtgttt      360
tgagaagtgc cccttagaaa gttaaaagaa tgtagaaaag atactcagtc ttaatcctat      420
gcaaaaaaaaa atcaagtaat tgttttctta tgaggaaaat aacctgagc tgtatcatgc      480
tacttagctt ttatgtaaat atttcttatg tctcctctat taagagtatt taaaatcata      540
tttaaatatg aatctattca tgctaacatt atttttcaaa acatacatgg aaatttagcc      600
cagattgtct acatataagg tttttatttg aattgtaaaa tatttaaaag tatgaataaa      660
atatatttat aggtatttat cagagatgat tattttgtgc tacatacagg ttgggctaatt      720
gagctctagt ggtaaactac ctgataattt cttataaaagc agcataacc              768

```

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<210> 163
<211> 776
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(776)
<223> n = A,T,C or G

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<400> 163
nantatgacc tgatacgcca acttggtagc gactcggatc cactagtaac ggccgccagt      60
gtgctggaat tcgcccttag cgtggtcgag gccgaggtag tcttcgcgag aggggaaggct      120
gtagaagtct ttgcaagctt catacagaga aatacaaaaag gtgtgatgcc attaactggt      180
cctttctaaa gcattaggaa tttagtgaag ctctcaaaac caaaactgaa aagccatttg      240
aacaaatctc atatacttgt agataagctt ttttttattt aaagcataca aattcaaadc      300
tttcaagcag aaaattcagt caagtggagat ccattgggtg tttgagttca aagtcaagtga      360
gcaaatggaa atcattgcgg catctctctc atttccctag tggacattag accactcaaa      420
atgtgtcaca taatttacag ccccttggtg gtaattgaaat atacacgttg agagtgcact      480
ggcagaacac ttaagaaaag ttgaatgcag gaggaccagc ttacgttatt tttggctcta      540
ctctgggttt tgcttttaat gtttttctt gagattaatt tcaattgggt tgttccatcc      600
tattcaaaaca aatgctttga gagaagagat gaacagcagc atcaataaa attgtgatat      660

```

ttagttnnag agacatcang tgttgtaate aaataagaca gaanggccaa gttaaaatct 720
gtgattngca taaatgaatt taactgttag aatagcanaa ttgagaggtg gattan 776

<210> 164
<211> 773
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 164
cgggacctcta gatgctgctc gacggccgccc atgtgatgga tatctgcaga attcgccctt 60
tcgagcgccc cccgggagagg tacacagtgg ataccacata ctgcgtctga ggaagaagga 120
ggaggagaaa gaggagaagg aaggaaaattt tcaaatgaca atttctatca ggactcattt 180
tcctattata agttcagaat acttggacgt ctttataaaa tcaagttgaa atctctacta 240
ttttgatctg tattctctta aatattaaaag gttataccta gggagattcc atgttgactg 300
gcaaacaaaag cataccattt taagaataac tcttcataaa atatgtgtct aagaattaaa 360
agtgtctagt aacagatata caaagagag atttagaata attaatattt aaagacagat 420
aattttaattg tttcacactt ttaactacaa aattctttgt tttcctaaat attagcaaaa 480
atgttatata ttaaaataaa tcttgaaaat ctcaccctac atttagataa tagttcaaaa 540
gtcatattgc taatctacct ctcaattctg ctattcttac agcttaaat catttatggc 600
aaatcacaga ttttactttg tcttctctgc ttatttgatt acaacacctg atgtctctga 660
aactaaatat ccaatttatt tgatgctgct gttcatctct tctctcaaaag cattngtttg 720
aatangattg aacaacccaa ttgaaattaa tctcaaggaa aaacattaaa ant 776

<210> 165
<211> 783
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(783)
<223> n = A,T,C or G

<400> 165
tnnnnnacac tatgacctga ttacgccanc ttggtaccga ctggatcca ctagtaacgg 60
ccgccagtgt gctggaattc gcccttagcg tggctcgggc cgaggtagag taggaaaata 120
agaataacaa cgggcaaaaat ctttttagaa catttatgct ttatctgttt tagcttctaa 180
aacaatcctg aaggatgaat aattatcatg agtatagcag aatttaattt tccctgttgc 240
tccaaaattt taatgaaaac tttacggttg agagaaatag gtaaaataaaa aaacttccta 300
aaattctaaa gacaattgtt gaataaaaatt taagtgaatg agtttgtgct tcatatttaa 360
cttttaactt tccaataggc tttattaaat ggaaaactga aatttacaaa gtcttagagt 420
agaagcattt ttatcctggc tagggattct ctaagagaac cagtagcacc aagatgcact 480
ggaacagtgc aacgagagag ttcatgcctt agggtttaga agcatacaag caaagggaat 540
ggtgcccact tcttactaga aaaatttcac aggcaggagt ctgggaggag gagcctggga 600
tgacagttaga agtggtgcagg aagcactaag tctagcctgt acctgcccgg gcggccgctc 660
gaaaggcgaa ttctgcagat atncatcaca ctggccggcc gntcgagcat gcatntagag 720
ggcccaattc gcctatagtg ancgtattac aattcactgg ccgcgtttta caacgtnnng 780
cnn 783

<210> 166
<211> 775
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(775)

<223> n = A,T,C or G

<400> 166

attgggcctc	tnnagcatgc	tcgagcggcc	gccagtgtga	tggatatctg	cagaattcgc	60
ccttcgagcg	gccgcccggg	caggtacagg	ctagacttag	tgcttcctgc	acacttctac	120
tgtcatccca	ggctcctccg	cccagactcc	agcctgtgaa	atttttctag	taagaagtgg	180
gcaccattcc	ctttgcttgt	atgcttctaa	accctaaggc	atgaactctc	tcgttgcaact	240
gttccagtgc	atcttggtgc	tactggttct	cttagagaat	ccctagccag	gataaaaatg	300
cttctactct	aagactttgt	aaatttcagt	tttccattta	ataaagccta	ttggaaagtt	360
aaaagttaaa	tatgaagcac	aaactcattc	acttaaat	tattcaacaa	ttgtctttag	420
aatttttagga	agttttttta	tttacctatt	tctctcaacc	gtaaagtgtt	cattaaaatt	480
ttggagcaac	agggaaaatt	aaattctgct	atactcatga	taattattca	tccttcagga	540
ttgttttaga	agctaaaaca	gataaagcat	aaatgttcta	aaaagatttt	gccggtgtgt	600
attcttattt	tcctactgna	cctcggccgc	gaccacgcta	aggcggaatt	ccagcacact	660
ggcggccgtt	actagtggat	ccgagctcgg	taccaanctt	ggcgtaatca	tggtcatagc	720
tggttctctg	gtgaaantgt	atccgntcac	aattcacaca	acatacganc	cggag	775

<210> 167

<211> 797

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(797)

<223> n = A,T,C or G

<400> 167

ttgnaacnat	tntgacctga	ttacgccaac	ttggtagcga	gctcggatcc	actagtaacg	60
gccgcagtg	tgctggaatt	gcgccttagc	gtggtcgcgg	cgcaggtact	ttcagaaggt	120
aaatcagtag	atcacccatg	tgtatctgca	ccttctcaac	tgagagaaga	accacagttg	180
aaacctgctt	ttatcatttt	caagatgggt	attttagtaa	ggcgaggaac	caattatgct	240
tgtattcata	agtattactc	taaatgtttt	gtttttgtaa	ttctgactaa	gaccttttaa	300
ccatgggttag	ttgctagtac	ccttccttgt	ccgaaggagc	tgaccagtat	tgatgagaga	360
gtccaggcag	ctcctgaaagt	tcagctggta	gtttgttctc	tgaacatttg	gtctcttgaa	420
ggcacagtat	atctggggct	tcttccttta	cccaatctaa	tcctttcttc	ttaatccagg	480
ctcgaagccc	atncacattc	caagagcaga	tcttgagtgt	ggcaggtttg	ccactgggtg	540
aggttttctg	atctgggggg	tcctcatata	gggctggggc	cctntcctgc	tgccctcttg	600
tcattttctt	tgccggccgt	cttactcttc	ttggcctctg	gcttctgtcc	tgagctcatc	660
cccgtctttc	ggccaccngt	tccccttttt	tacacgcctt	cggcatttcc	cgttaccgaa	720
cgcccttttg	gcagctgtac	ctgcccngg	cggccgttcg	aaaaggccna	attcttgca	780
aatttccatc	ncaccnn					797

<210> 168

<211> 780

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(780)

<223> n = A,T,C or G

<400> 168

acantatgac	ctgatacgcc	aacttggtac	cgactcggat	ccactagtaa	cggccgccag	60
tgtgctggaa	ttcgccctta	gcgtggctgc	ggccgaggta	ctccggctcg	tgtcagcagc	120
acgcggcatt	gaacattgca	atgtggagcc	caaaccacag	aaaatggggt	gaaattggcc	180
aactttctat	taacttatgt	tggaattttt	gccaccaaca	gtaagctggc	ccttctaata	240
aaagaaaatt	gaaaggtttc	tactaaaacg	gaattaagta	gtggagtcaa	gagactccca	300
ggcctcagcg	tacctgcccg	ggcggccgct	cgaaaggcg	aattctgcag	atatccatca	360
cactggcgcc	cgctcgagca	tgcattctaga	gggcccaatt	cgccctatag	tgagtcgtat	420
tacaattcac	tgcccgctcg	tttacaacgt	cgtgactggg	aaaaccctgg	cgttacccaa	480

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cttaatcgcc ttgcagcaca tcccccttcc gccagctggc gtaatagcga agaggcccg 540
accgatcgcc cttcccaaca gttgcgcagc ctgaatggcg aatggacgcg ccctgtaacg 600
gcgcattaag cgcggcggtt gtggtggtta cgcgcagcgt gacccgtaca cttgccagcg 660
ccctancgcc cgctncttcc gctttcttcc ctttctttct tngcacgttc gccggctttt 720
cccgtcaagc tctaaatcgg gggctccttt tanggttccg atttantgct ttacnagnacn 780

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<210> 169

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(771)

<223> n = A,T,C or G

<400> 169

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gggcnctng agcatgctcg acggccgcca tgtgatggat atctgcagaa ttccgcccttt 60
cgagcggccg cccgggcagg tacgtgagg cctgggagtc tcttgactcc actacttaat 120
tccgtttagt gagaaacctt tcaattttct tttattagaa gggccagctt actgttggtg 180
gcaaaattgc caacataagt taatagaaag ttggccaatt tcacccatt ttctgtggtt 240
tgggctccac attgcaatgt tcaatgccgc gtgctgctga caccgaccgg agtacctcgg 300
ccgcgaccac gctaaaggcg aattccagca cactggcggc cgttactagt ggatccgagc 360
tcggtaacca gcttggcgta atcatggtca tagctgtttc ctgtgtgaaa ttgttatccg 420
ctcacaattc cacacaacat acgagccgga agcataaagt gtaaagcctg ggggtgcctaa 480
tgagtgaagt aactcacatt aattgcgttg cgctcactgc ccgctttcca gtcgggaaac 540
ctgtcgtgcc agctgcatta atgaatcggc caacgcgcgg ggagaggcgg ttgctgtatt 600
gggcgtctct ccgcttnctc gctcactgac tcgctgcgct cggtcgttcn gctgcggcga 660
gcggtatcaa gctactcaa ggcnctaata ccgntatcca cagaatcagg ggataacgca 720
ggaaagaaca ttgtgagcaa aaggcancaa aagggcagga accgtaaaaa n 771

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<210> 170

<211> 777

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(777)

<223> n = A,T,C or G

<400> 170

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acacttgacc tgatacgcca acttgggtacc gagctcggac cactagtaac ggccgccagt 60
gtgctggaat tcgcccttag cgtggctcgc gccgaggtag acagaatagc tgagcagttc 120
acttcaggga tcaggtcac tctgctctc ctagtctcac catgttctgg caataaaaaa 180
cacatattat atcctggttt tctctatcct tgcattacta aggtgactgt ctctctttat 240
acatccttgt atggttctcc cagtattagc aagattgtat atctgtaaag aatgtccagt 300
tttgtaaaata ttccctgcc ttttttttcc tttttttaca tctgatttta atgcttcgtt 360
aacttcaaaa ggaactggta gagttcagaa ggtgagctgt tgtttttcta aacctcttcc 420
caggaagggg acattgacac ttgaattttt gtcacctttt tcctcattag aaggaaagta 480
gaaagcctta ctgtaggatt tttaaaaaaa aatccatctc accccatatt ggtcttaaat 540
aagtatagac taattaacct aagctacctt taacaacgta gaatttagat gggttcatat 600
atgtgagaaa aacctgaata taggacaggg gtccactttt tttccccacc tctgtcgcgc 660
aggctagagt atagtgtgt gatcttgcc cactgnaacc tctgcttctt anggtcaagt 720
gattcttctt gcctcacctt ccaagtagct gggattggaa gaatatgccn cccccg 777

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<210> 171

<211> 782

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(782)

<223> n = A,T,C or G

<400> 171

nngggcccnt	agagcatgct	cgacggccgc	cagtgtgatg	gatatctgca	gaattcgccc	60
tttcgagcgg	cgcgccgggc	aggtaacttt	tttttttttt	tttttttttt	tttaattaat	120
tagaaagtag	gctgggcacg	gtggctcatg	cctataatcc	cagcacttgg	ggaggccgag	180
gatctctctt	ctgggtggatc	acttgagggc	aggagttaag	agaccatcct	ggccaacatg	240
atgaaaccct	gtctctacta	aaaatacaaa	aagttagctgg	gcgtgggtggc	atactcttac	300
aatcccagct	acttggggagg	ctgaggcagg	agaatcactt	gaacctagga	agcagagggt	360
gcagtgggcc	aagatcacac	cactatactc	tagcctgggc	gacagagggtg	gggaaaaaag	420
taggaccctt	gtcctatat	caggtttttc	tcacatatat	gaacccatct	aaattctacg	480
ttgttaaagg	gtccttaggt	taattagtct	atacttattt	aagaccaata	tggggtaga	540
tggatttttt	tttaaaaatc	ctacagtaag	gctttctact	ttccttctaa	tgaggaaaaa	600
ggtgacaaaa	attcaagtgt	caatgtcccc	ttcctgggaa	gaggtttaga	aaaacaacag	660
ctcaccttct	gaactctacc	agttcctttt	tgaaggttaa	ccgaagcatt	aaaatcagat	720
gttaaaaaag	aaaaaaaaaa	ggcngggaaa	atattttaca	aactgggaca	ttctttacag	780
an						782

<210> 172

<211> 773

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(773)

<223> n = A,T,C or G

<400> 172

canttgacct	gatacgccaa	cttgggtaccg	actcggacca	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttttca	gcggccgccc	gggcaggtac	catcctgtgg	ctccttaagg	120
aggctctctt	ctttaattct	ccatgaggca	tccaggggtg	tctgggctat	gggaagaacc	180
cttcaacttg	ggagtagaca	ggtgctccaa	ttcatagtgc	ccattctcag	aggccttggt	240
tgtgagtttc	tccttcacatg	cttccttctg	gctcttcttg	tgctccataa	tctgctggag	300
ctgggtgccc	gcatagtctg	gcttgggtggt	cagcggggcca	gccggcacag	ctacaccaag	360
gacatctgac	accatgtagg	ggcgcagcca	gcccaccaag	ggagtgcctc	cggggctgta	420
gtgggtctgt	ttgtggtaga	agagaagtcc	atctacctca	aaagggaaat	ccatagatag	480
cacatcacac	aggcttttcgg	gagtgcgaag	gaagttcttt	agccccacaa	atttaaaaag	540
attaagcttg	gttttctctc	ccagtccttc	ttcttctggt	aactttgaat	gcacccagta	600
gaatcggaaa	tcaagtctgg	caatcataaa	aaggggtgcc	ccgccagcac	atcacattca	660
gaacgtagta	ggtctggttt	acctcattgt	aaatgcaatc	tagaatggtg	taagcttttg	720
ctgntgaagt	ttccctgtgc	ctctggcaga	atgaagaaan	ctgttgacac	aac	773

<210> 173

<211> 772

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(772)

<223> n = A,T,C or G

<400> 173

ntgggcctct	nnagctgctc	gacggccgccc	atgtgatgga	tatctgcaga	attcgccctt	60
agcgtggteg	cggcccgagg	acagttcctt	ggagcagagt	gagcgcgcc	ggaggttact	120
ggaactgcag	aaatccaagc	ggctggatta	tgtgaacat	gccagaagac	tggtgaaga	180
tgactggaca	gggatggaga	gtgaggaaga	aaaataagaa	agatgatgaa	gaaatggaca	240
ttgacactgt	caagaagtta	ccaaaacact	atgctaata	attgatgctt	tctgagtgg	300
taattgacgt	tccttcagat	ttggggcagg	aatggattgt	ggctggtgtc	cctgttgga	360

aaagagccct tategtggtc tccaggggtt ctaccagtgc ctacaccaag agtgggtact 420
gtgtcaacag gttttcttca cttctgccag gaggcaacag gcgaaactca acagcaaaaag 480
actacacccat tctagattgc atttacaatg aggtaaaacca gacctactac gttctggatg 540
tgatgtgctg gcggggacac cctttttatg attgccagac tgatttcgga ttctactgga 600
tgcattcaaa gttaccagaa gaagaaggac tgggagagaa aaccaagctt aatcctttta 660
aatttgtggg gctaaagaac ttcccttgca ctcccgaaag cctgtgtgat gtgtatctta 720
tggatttctt tttgaggtag atggacttct cttctaccac aaacagaccc ac 772

<210> 174

<211> 780

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(780)

<223> n = A,T,C or G

<400> 174

acactatgac ctgatacgcc aagcttggtg ccgagctcgg atccactagt aacggccgcc 60
agtgtgctgg aattcgccct tagcgtggtc gcggccgagg tacaaaaata catTTTTCCA 120
catacaaaag agagaaaaaa acaaagacat gtggcgggtg gcgaggggag gcccaatccc 180
aacaccctac aaggttccat ggaatggaga aggaacaaaa aaatccccc aaatTTTTGGG 240
gtaagatgtg ccccgaaaaa ggtgaaatct atgcaataaa acccagggtt tcttcaaatc 300
tagcatctag gatttctatc agagtttcaa ataactcagaa tttctatcag aatttctacc 360
ctgagggtgac acctactaac tgtagggtct ttcattaaaa atgaagacat ctttcaccag 420
aatgtatcaa gctataaaac tggcttcaga gcctacactt agccagagtg gaaaaaaaat 480
agtgcataatt ttcgacagca attttgaatt gatgcttgag gtctcaatcc accagcacc 540
agatatcatg ttacctccct cagttgaata caagttaaaa tgatgatctt atcgagatct 600
caatagagca agtgccctt catgtttcgg gtaagaagggt gggaggagga atgaagcccg 660
gtattacacc cagcccaatg acagcttaag ccttaacatg cnggcattct acaatgacca 720
taaacaaggg angggccaag canggctngc gatcattact ttgcgcacag aatgccatgt 780

<210> 175

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(771)

<223> n = A,T,C or G

<400> 175

gggcctctag agcatgctcg agcggccgcc atgtgatgga tatctgcaga attcgccctt 60
tcgagcggcc gccgggcagg tactaaaaca gctttgctta tggtggccag gggaaaaaat 120
ggcattctgt gcgcaaagct aatgatcgcc agccctgcct tggccctcc cttgtttatg 180
gtcattgtaa gatgcccgca tgttaaggct taagctgtca ctgggctggg tgtaataccc 240
gcttcattcc tctccacc ctcttaccgg aaacatgaag ggcactgtgc tctattgaga 300
tctcgataag atcatcattt taacttgtat tcaactgagg gaggtaacat gatattctggg 360
tgctgggtgga ttgagacctc aagcatcaat tcaaaattgc tgtcgaaaat atgcactatt 420
ttttttccac tctggctaag tgtaggctct gaagccagtt ttatagcttg atacattctg 480
gtgaaagatg tcttcatttt taatgaaaga acctacagtt agtaggtgtc acctcaggg 540
agaaattctg atagaaattc tgattatttg aaactctgat agaaatccta gatgctagat 600
ttgaagaaaa cctgggtttt attgcataga ttacacctt tctggggcac atcttacc 660
aaaataattg gggatttttt tgnctcttcc ccattccatg gaaccttgta ggggtgtttg 720
gattgggctt tccctngcca cccgccacat gtctttgggt ttttctctct t 771

<210> 176

<211> 773

<212> DNA

<213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(773)
 <223> n = A,T,C or G

<400> 176
 atngggcctc tagagcatgc tcgagcggcc gccatgtgat ggatatctgc agaattcggc 60
 cttagcgtgg tcgcggccga ggtactcatg tatttttttt tttttccaga tctctttccc 120
 caagttgcta ttgtaagagt attctgctgc gtgtggatgc agttatacac attaaagcag 180
 atctggagtc tgaagtagct ataaagcagc tataaaacag aaatacatgc atagctgcag 240
 aaaccatgat aggtagagga cttttctttt ggttttgttt tgttttgttt tgttttgttt 300
 ttggttttac agagaagaga tttttattac aaagaaaaaa attccagtga attgtgcaga 360
 aatgctgggtt ttacacccat cctaagaaaa aactttacaa ggggtgtttg gagtagaaaa 420
 aaggtataaa agttggaatc ttaaatgtta aaattaacca ttgagtgtca aagttctaaa 480
 agcagaactc attttgtgca atgaacataa ggaaagacta ctgtataggt tttttttttc 540
 tccttttaaa tgaagaaaaa ctttgcctaa ggggtgcata cttttattgg agtaaatctg 600
 aatgatccta ctcccttggg gtaaaactag tgcttaccag tttccaatgg tatttagctt 660
 ctggttgga tttgaaaaaa aaagaaaaaa agaaaaagaa aacctaaata aaataggtga 720
 aagttccctg actattcagg tgaatacnca aaaanaaaaa nnnnnnaann nnt 773

<210> 177
 <211> 772
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(772)
 <223> n = A,T,C or G

<400> 177
 acattngacc tgatacgcca gcttgggtacc gagctcggat ccactagtaa cggccgccag 60
 tgtgctggaa ttcgccctta gcgtggctgc ggccgaggta cagtaggaaa ataagaataa 120
 caacgggcaa aatcttttta gaacatttat gctttatctg ttttagcttc taaaacaatc 180
 ctgaaggatg aataattatc atgagtatag cagaatttaa ttttccctgt tgctccaaaa 240
 ttttaataaa aactttacgg ttgagagaaa taggtaaata aaaaaacttc ctaaaattct 300
 aaagacaatt gttgaataaa atttaagtga atgagttgt gcttcattat taacttttaa 360
 ctttccaata ggctttatta aatggaaaaa tgaaatttac aaagtcttag agtagaagca 420
 tttttatcct ggctagggat tctctaagag aaccagtagc accaagatgc actggaacag 480
 tgcaacgaga gagttcatgc cttanggttt agaagcatac aagcaaaggg aatgggtgccc 540
 acttcttact agaaaaattt cacaggctgg agtctgggcg gaggagcctg ggatgacagt 600
 agaagtgtgc aggaagcact aagtctagcc tgtacctgcc cgggcggncg ctcgaagggc 660
 gaattctgca gatatccatc aactggcgg ccgctcgagc atgctctana gggcccaatt 720
 cgccctatag tgagtcggat tacanttnaa tggccgncgt tttacaacgt cc 772

<210> 178
 <211> 770
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(770)
 <223> n = A,T,C or G

<400> 178
 attgggcccc tnnagcatgc tcngcgggcc gccagtgtga tggatatctg cagaattcgc 60
 ccttcgagcg gccgccggg caggtacagg ctgacttag tgcttcctgc acacttctac 120
 tgtcatccca ggctcctccg ccagactcc agcctgtgaa atttttctag taagaagtgg 180
 gcaccattcc ctttgcctgt atgcttctaa accctaaggc atgaactctc tcgttgcaat 240
 gttccagtgc atcttggtgc tactggttct cttagagaat ccctagccag gataaaaatg 300

```

cttctactct aagactttgt aaatttcagt tttccattta ataaagccta ttggaaagt 360
aaaagttaaa tatgaagcac aaactcattc acttaaatat tattcaacaa ttgtctttag 420
aatttttagga agttttttta tttacctatt tctctcaacc gtaaagtttt cattaaaatt 480
ttggagcaac agggaaaatt aaattctgct atactcatga taattattca tccttcanga 540
ttgttttaga agctaaaaca gataaagcat aaatgttcta aaaagatttt gcccggttgg 600
attcttattt tcctactgta cctcgccgcn gaccacgcta agggcgaatt ccagcacact 660
ggcgccgnt actagtggat ccgagctcgg tacccaanct tggcgtaatc atggncatag 720
ctgttctcgn gngaaatngn natncgntna caattnccac acatacnann 770

```

<210> 179

<211> 502

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(502)

<223> n = A,T,C or G

<400> 179

```

cnnnttgacn tgattcgcca acttggtacc gagctcggat ccctagtaac ggccgccagt 60
gtgctggaat tcgcccttag cgtggtcgcn gccgaggtac ctggcccca acttctcgaa 120
taaaatgaaa ctatgattct tggcctcact cactaccatg tgacattgat caaatcactt 180
cacctctcca aacctcagag tctttatctg taagatggaa aaagtaacac ctacttcagg 240
ggctgtcatg aggattaaat aaatgtgccc agcaggtagt aagtatacaa cacaaagcat 300
ctaattggtc attcatatcat ttgcttattt tgcaattatt ggccacctgc caatgttggg 360
cactgttcta ggcacagggg atacagcaag ggcaaacacc taactactgg tggagggag 420
acgataaaca aatacgtaaa gatttgtgcc aggtagtgat aaaagcaaaag aatgactcat 480
ggagaggggtc agctggggag ac 502

```

<210> 180

<211> 823

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(823)

<223> n = A,T,C or G

<400> 180

```

gggccttnna gcatgctcga cggccgccat gtgatggata tctgcagaat tcgccctttc 60
gagcggccgc ccgggcaggt actgcgtggt ctcccagct gacctctcc atgagtcatt 120
ctttgctttt atcactacct ggcacaaatc tttacgtatt tgtttatcgt ctccctcca 180
ccagtagtta ggtglttgcc cttgctgtat cccctgtgcc tagaacagt cccaacattg 240
gcaggtggcc aataattgca aaataagcaa atgtatgaat gaaccattag atgctttgtg 300
ttgtatactt actacctgct gggcacattt atttaacct catgacagcc cctgaagtag 360
gtgttacttt ttccatctta cagataaaga ctctgaggtt tggagaggtg aagtgatttg 420
atcaatgtca catggtagt agtgaggcca agaatcatag tttcatttta ttcgagaagt 480
tggggggccag gtacctcggc cgcgaccacg ctaaggcgga attccagcac actggcggcc 540
gttactagtg gatccgagct cggtagcaag cttggcgtaa tcatgggtcat agctgtttcc 600
tgtgtgaaat tggtatccgc tcacaattcc acacaacata cgagccggaa gcataaagtg 660
taaaagcctgg ggtgcctaag gaggtagcta actcacatta attgcgttgc gctcactgcc 720
cgcttttcag tcgggaaacc tgcgtgccca gctgcattaa tgaatcggcc aacgcgccgg 780
gaaaagcngn ttgcttattg gggcgctctt ncgctttctt gcn 823

```

<210> 181

<211> 501

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 181
 cantatgacn tgattcgcca acttggtacc ngctcggatc cctagtaacg gncgccattg 60
 tncctggaatn cgncccttagc gtgggtcgcg cggaggtact ttcttcnttt nctnnaattt 120
 tccataacct agtgccngnt tgatnccctc acatggntgg ttcacatnnc cngtacagan 180
 gnccggnac catggganag ggcagcactc ntnccttctn angggatctt ggcctaangg 240
 tgtacnaagg gagangatgg antntcttct gncctcncta nggcctaggg aaccacagnag 300
 canatccac nacncccttcn atntttnagc caaggagaag ccccttggtg acnttnagtt 360
 ccaaccatta tacncagtg gnagaatggat nntcctggtc ccaaccatta cagggtgaag 420
 atatnaacag ttaaggaaga tacagtttng atgaggcctc anganggagc agntnacacc 480
 atcatannca tatgcaggga a 501

<210> 182
 <211> 830
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(830)
 <223> n = A,T,C or G

<400> 182
 ggcccttnga ngcatgctcg acggccgcca tgtgatggat atctgcagaa ttccgcccttt 60
 cgagcgcccg cccgggcagg tacacgagaa gctccgagga tggctgaagt ccaacgtctc 120
 tgatgcggtg gctcagagca cccgtatcat ttatggaggc tctgtgactg gggcaacctg 180
 caaggagctg gccagccagc ctgatgtgga tggcttcctt gtgggtggtg cttccctcaa 240
 gccgaattc gtggacatca tcaatgccaa acaatgagcc ccatccatct tccctaccct 300
 tcctgccaaag ccagggacta agcagcccag aagcccagta actgcccttt ccctgcatat 360
 gcttctgatg gtgtcatctg ctccctcctg tggcctcctc caaactgtat cttcctttac 420
 tgtttatate ttcaccctgt aatggttggg accaggccaa tcccttctcc acttactata 480
 atgggttgaa ctaaacgtca ccaagggtggc ttctccttgg ctgagagatg gaaggcgtgg 540
 tgggatttgc tectgggttc cctaggccct agtgagggca gaagagaaac catcctctcc 600
 cttcttacac cgtgaggcca agatccctc agaangcang agtgcttgcc cttcccatgg 660
 tgcccgtgcc tcttgtgctg ngatgtgaa ccaccccatg tgagggaata aacctggcac 720
 tangtctttg aaaaaaanaa aaacntnaaa aaaantccct tcggccgnga ccacgctaag 780
 gnccaattcc ancacaatgg gcgnncgtna ctantggatc caaccttntc 830

<210> 183
 <211> 484
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(484)
 <223> n = A,T,C or G

<400> 183
 ttgacatgat acccaacttg taccgagctc ggatccacta gtaacggccg ccagtgtgct 60
 ggaattcgcc ctttenagcg gccgcccggg caggtacccc agcccgcccc actgagtttg 120
 ccttctatcc gggatatccg ggaacctacc agcctatggc cagttacctg gacgtgtctg 180
 tgggtgcagac tctgggtgct cctggagaac cgcgacatga ctccctggtg cctgtgggca 240
 gttaccagtc ttgggctctc gctgggtggc ggaacagcca gatgtgttgc caggggagaac 300
 agaaccacac angtcctttt ttggaggcca gcatttgtag acttcaacgg gcaaaaacctc 360
 tgacgcctgc gcctttcgtc gcggncgcag aaaccatttc gnactttaan attgaatctt 420
 ctctaagggtt ganaatttct ggatcccttg anaactttta canntgnnct ttantcctt 480
 taaa 484

<210> 184
<211> 824
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (824)
<223> n = A,T,C or G

<400> 184
ggccttagag ctgctcgacg gccgccatgt gatggatata tgcagaattc gcccttagcg 60
tggctcgccg cgaggtacca gattggccac tctagggtag aacaccaggt agattcctaa 120
ggttcctgac tccaggccct ggctcccagt tggcatctct ggacctactt ggggtcacag 180
tgaactcact gccctgaagg gaagatgcct ggctggatat gccacctgct gattggagag 240
tccttggaac ttgagtgaac acaggtggta gccaggcagt gatcatcata gcccttgggt 300
gagccccagt gctgtgttgg cttcaggtct gacacagagc tgtcccagtg gtagtcgcca 360
caggggtgct tgtgtcatca tcccttctcc agtccagggc agtcagcac agagacatag 420
tgtccatttg ttgagtgaac agtaaaagaa gagaacaaga gtctccacct agtaatccag 480
ggaattctcc cagatcttac ccaagacaac caaggcaaga gacacagcat tactgggctg 540
gaggtgcccc ctaatgcagg tatggctgca gtgaacaaag acttagatca caacacccaa 600
atcccttcta atagttggaa agccttncca agaaggatgc cggacaaaca agcccaaact 660
gtgaagacta caacaaatac ctaactcttt caatgcccag aactgaaga atatcccaaa 720
ctttaagacc atccatgaaa acatgacctt accaacaagc taaataagac accagtgacc 780
aatcccagag agatagagat atgtgtcctt tcnnacagag aatt 824

<210> 185
<211> 499
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (499)
<223> n = A,T,C or G

<400> 185
cacttgacnt gatacgccaa cttgtaccga ctccggatcca ctagtaacgg ccgccagtgt 60
gctggaattc gcccttagcg tggctcgccg cgaggtactt tttctttttt ntntatttt 120
tttttttctg ctccccaaag ctttatctgt cttgactttt taaaaaagtt tgggggcaga 180
ttctgaattg gctaaaagac atgcattttt aaaactagca actcttattt ctttcttta 240
aaaatacata gcattaaatc ccaaatccta tttaaagccc tgacagcttg agaaggtcac 300
tactgcattt ataggacctt ctgggtgggtc tgctgttacg tttgaagtct gacaatcctt 360
gagaatcttt gcatgcagag gaggtgaagag gtattggatt ttcacagagg aagaacacag 420
ccgcanaatg aagggccagg cttactgagc tgccaatgga gggctcatgg gtgggacatg 480
gnaaagaagg cacctagcc 499

<210> 186
<211> 504
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (504)
<223> n = A,T,C or G

<400> 186
cacttgacnt gatacgccaa cttggtaccg agctcggatc cctagtaacg gccgccagtg 60
tgctggaatt cgcccttagc gtggctcgccg ccgaggtacc tcaggaggtc tgcaagtgtg 120
tggttaggta aaaactganc tgtgcaaaact cactgtatcc aagctcttct catgagagag 180
cggaacaacc tggcaagctt aaaggcaagt gttttcgttc ttttaattaa ataggctgtg 240

acaaaattaa	caataaaaact	agcccagAAC	caaccagccc	ggtaagtgtc	gtgcaaactc	300
tgcagtaaca	aaagaccatc	tgagagacta	cacgttggtc	tccagtccta	gcaagcgtcc	360
cattctctnc	acattcttat	caattgtagc	ttgacatggt	atctccttgg	cacattccat	420
aggaaaccag	cctctttctn	catctcgtag	tcgntccccc	ttataaccagc	catcgctgac	480
acgtttgata	gatgaagacg	acgt				504

<210> 187

<211> 822

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(822)

<223> n = A,T,C or G

<400> 187

gggcctctna	gctgctcgnc	ggccgccatg	tgatggatat	ctgcagaatt	cgccctttcg	60
agcggccgccc	cgggcaggta	cgcggggact	gggtttttct	cctttttag	ccttttctct	120
tagtctctc	ttcccgggtg	ttggtaaaaa	gaggtgaatt	gacagcctat	gttgaagaca	180
ctgtgctttt	ctcaagaagg	acatccaaac	agcaagtcta	cttctttctc	tttaacgatg	240
tgctcattat	caccaagaag	aagagtgaag	aaagttacaa	cgtaaatgat	tattccttaa	300
gagatcagct	attggtggaa	tctgtgaca	atgaagagct	taattcttct	ccaggggaaga	360
acagctccac	aatgctctat	tcaagacaga	gctctgccag	tcacctcttt	actctgacag	420
tccttagtaa	ccacgcgaat	gagaaagtgg	agatgctact	aggagctgag	acgcagagcg	480
agcgaagccc	ctggataact	gccctgggac	acagcagcgg	gaagccgcct	gcagaccgaa	540
cctcactgac	ccaggtggaa	atcgtaggt	catttactgc	taagcagcca	gatgaactct	600
ccctgcagggt	ggctgacgtc	gtcctcatct	atcaacgtgt	cagcgatggc	tggtatgagg	660
gggaacgact	acgagatgga	gaaagaagct	ggtttcttat	ggaatgtgcc	aaggagataa	720
catgtcaagc	tacaattgat	aagaatgtgg	agagaatggg	accttgctag	gactggagac	780
caacgtgtag	tctctcaaan	gncttttggt	actgcaagat	tg		822

<210> 188

<211> 504

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(504)

<223> n = A,T,C or G

<400> 188

tatgancatg	atacgccaac	ttggtaccga	gctcggatcc	actagtaacg	gcccgccagt	60
gtgctggaat	tcgccccttag	cgtggctcgc	gccgaggtag	caaaaaagta	aacattgata	120
atatggcctg	acaacaatca	gatatgctaa	gctctagaag	caaaagcaag	gtaggattgc	180
ctccaaatgt	tgacagggtat	tagccatacc	acagtaacta	gatctaattg	gagggctaaa	240
tgcttgagga	ggcagaaccc	taaaggatgc	ttagttatag	ctccatgctg	ccgccgagtg	300
gcttgatgct	ccattacacc	ctccttggtat	ccaaccttcc	attaaggctg	aaggctctag	360
agggcagagt	attcaagatg	ttagatctgg	tccaagccca	aattctagag	ttaaaagcag	420
aggggttctt	agtggctgaa	aaaaaacaaa	acctgatgac	atttgggact	ccagttttga	480
ggaaaggctc	tgatgatgag	gctt				504

<210> 189

<211> 842

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(842)

<223> n = A,T,C or G

```

<400> 189
nnnnnnnnntt tttgaaccgg cccntnnang catgctcgac ggccgccatg tgatggatat    60
ctgcagaatt cgccctttcg agcgccgcc cgggcaggta ccccttctcg ttttgccatt    120
agccaaggat agaagctgca gtggtattaa ttttgatata atctttcaaa ccagcttcat    180
gtggcttccc ttttctttgt tcaagatgag ggccaggagg ggaacatca cacctgccct    240
aaaccctggt cctggaggtc agcatttgat ctggtgcaag cccctctttc tgtccctct    300
tcctaccctg cctcccatga ctttgcctct cacacttttg gaaccatgcc ttccgggggg    360
gcccactctc tctggccgtc cttgtctctg ggccacttgg agtgtgtgat aaatcagtca    420
agctgttgaa gtctcaggag tctctggtag cctgcagaag taagcctcat catcagagcc    480
tttctcaaaa actggagtc caaatgtcat cagggtttgt tttttttcag ccactaagaa    540
ccccctctgt tttaactcta gaatttgggc ttggaccaga tctaactct tgaatactct    600
gccctctaga gccttcagcc ttaatggaag gttggatcca aggagggtgt aatggagcat    660
caagccactc ggccgcagca tggagctata actaagcatc ctttaggggt ctgcctctcc    720
aggcatttag cccctacatt agatctagtt actgtggtat ggctaatacc tgtcaacatt    780
tggaggcaat cctaccttgc ttttgcctct agagcttagc atatctgatg gttgcaggcc    840
cg
842

```

<210> 190

<211> 503

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (503)

<223> n = A,T,C or G

```

<400> 190
actatgacct gattacgcca agcttggtag cgagctcgga tccctagtaa cggccgccag    60
tgtgttgaaa ttgcgccctt cgagcgcccg cccgggcagg taccatgctg acttcttggt    120
atcttttaag gcctaatttt cccctccttg agattactgt agtgtgttcc agctaatttc    180
tatttggaag cgagttggaa cagctgaaaa ctaggattta ttgaaggcaa agcagcctca    240
cgtcagtttt ttatcagctc atttgggaag tttttttttt ttttttttaa ttaattagaa    300
agtaggctgg acacggtggc tcatgcctat aatcccagca cttggggagg ccgaggatct    360
cctctctggt ggatcacttg agggcaggag ttaagagacc atcctggcca acatgatgaa    420
acctgtcttc tactaaaaat acaaaaagta nctgggcgtg gtggcatact cttacaatcc    480
cagctacttg ggaggctgag gca
503

```

<210> 191

<211> 829

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (829)

<223> n = A,T,C or G

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<400> 191
gggcctctga gcatgctcga cggccgccat gtgatggata tctgcagaat tcgcccttag    60
cgtggtcgcg gccgaggtac tttttttttt tcttttttta catctgattt taatgcttcg    120
ttaacttcaa aaggaaactg tagagttcag aaggtagagct gttgtttttc taaacctctt    180
cccaggaagg ggacattgac acttgaattt ttgtcacctt tttcctcatt agaaggaaa    240
tagaaagcct tactgtagga tttttaaaaa aaaatccatc tcaccccata ttggtcttaa    300
ataagtatag actaattaac ctaagctacc tttaacaacg tagaatttag atgggttcat    360
atatgtgaga aaaacctgaa tataggacag ggggtcctact tttttcccca cctctgtcgc    420
ccaggetaga gtatagtggg gtgatcttgg cccactgcaa cctctgcttc ctaggttcaa    480
gtgattctcc tgcctcagcc tccaagtag ctgggattgt aagagtatgc caccacgccc    540
agctactttt tgtattttta gtagagacag ggtttcatca tgttggccag gatggtctct    600
taactctgc cctcaagtga tccaccagag aggagatcct cggcctnccc aagtgtctgg    660
attataggca tgagccaccg tgtccagcct actttctaata taattaaaaa aaaaaaaaaa    720

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aaactttcca aatgagctga taaaaaactg acgtgaggct gctttgcctt caataatacc 780
tagttttcag ctgtccaact cgtttccaaa tagaaattaa gctggggang 829

<210> 192
<211> 503
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(503)
<223> n = A,T,C or G

<400> 192
ntatgaccat gattacgcca agcttggtac ccgagctcgg atccactagt aacggccgcc 60
agtgtgctgg aattcgccct ttcgagcggc cgcccgggca ggtactgcct ttgggcttct 120
tctctctect gttttctcct ctccaattct ttactgtttt aatacattgt tcttctggct 180
gaggctgggtc aaagctacac tgatcttcaa ataaaggctc gtcaatgcta cactgttctt 240
caagcaacgg ctggtgaact tgttctgaca aaggatggct gacttttctt gcttgcttcc 300
tatgtctttc ctcttcagct aaatagagat gtttcagatt atctgggtat cgatctgtga 360
attgagattc cagtgcggtt tgagccttct tttccttcgg tagcaatttc ttgtaacttt 420
gctgtatttt cagttttctt cgaaaagcaa agccttgtcc ctccggaacg ctccccacga 480
agcttgcggg tgggtaggcc gca 503

<210> 193
<211> 834
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(834)
<223> n = A,T,C or G

<400> 193
ancggctctc tagagctgct cgacggccgc catgtgatgg atatctgcag aattcgccct 60
tagcgtgggtc gcggcncgag gtacaattca ttatgtgttt catttaattac ctttattaaa 120
aacaacacaa ttatattaca atagggacaa aaaatgttta agcaaatgaa aacgaaacca 180
tgacataccc aaactcagga ggaggcaaca aaggcagtcg taaagggag cttacagctc 240
cagatgctta aattaaaaag aagaaagatc tcaaacccat gctaaaggga agcttacagc 300
tacagatcct taaattaaaa agaagaaaga tctcaaaccc atgctaaagg gaagcttaca 360
gctgcagatg cttaaattaa aaagaagaaa gatctgaaac ccttgctaaa gggaagctta 420
tagctgcagg tgcttaaat aaaaagaaga aagatctcaa atcaataacc taacattaca 480
cctgaagggg gggaaaaaaa ctaatgacaa accaagcaaa aggaagaaaa taacagatta 540
gagcagagat aagcagaata agaccagaaa aaaggaaaaa aacactgagt ttgttttttt 600
aaagatcaat aaaaatttta aaactcacag ctatattaag aaaaaagaga aatctcaaat 660
actaaaatca taagtataag angtgacagt acaggaataa gaatgtgaga cagaagacat 720
ggcggcctac caccgcgaag ccttcgtggg gagcgttcgc ganggacaag gctttgcttt 780
tcgaagaaaa ctgaaatnc cgcaaagttc cagaaattgt tcngaagaaa agaa 834

<210> 194
<211> 502
<212> DNA
<213> Homo Sapien

<400> 194
cacttgacct gattcgccaa gcttggtacc gagctcggat ccctagtaac ggccgccagt 60
gtgctggaat tcgccctttc gagcggccgc ccgggcagga cgctgaggcc tgggagcttc 120
ttgactccac tacttaattc cgttttagtg gaaacctttc aattttcttt tattagaagg 180
gccagcttac tgttggtggc aaaattgcca acataagtta atagaaagtt ggccaatttc 240
accccathtt ctgtggtttg ggctccacat tgcaatgttc aatgccacgt gctgctgaca 300
ccgaccggag tacctcggcc gcgaccacgc taaggcgaa ttctgcagat atccatcaca 360

```

ctggcgccgcg ctcgagcatg catctagagg gcccaattcg ccctatagtg agtcgtatta 420
caattcactg gccgtcggtt tacaacgtcg tgactgggaa aaccctggcg ttacccaact 480
taatcgccct gcagcacatc cc 502

```

```

<210> 195
<211> 848
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(848)
<223> n = A,T,C or G

```

```

<400> 195
gnnnnnnntt tnaatgggc ctctnnagca tgetcgagcg gccgccatgt gatggatatc 60
tgcagaattc gcccttagcg tggctcgggc cgaggtaact cggtcggtgt cagcagcacg 120
tggcattgaa cattgcaatg tggagcccaa accacagaaa atggggtgaa attggccaac 180
tttctattaa cttatgttgg caattttgcc accaacagta agctggccct tctaataaaa 240
gaaaattgaa aggttttctca ctaaaccggaa ttaagtagtg gagtcaagag actcccaggc 300
ctcagcgctc tgcgcggggc gccgctcgaa agggcgaatt ccagcacact ggcggccgtt 360
actagtggat ccgagctcgg taccagcgtt ggcgtaatca tggcatagc tgtttcctgt 420
gtgaaattgt tatccgctca caattccaca caacatacga gccggaagca taaagtgtaa 480
agcctggggg gcctaataag tgagctaact cacattaatt gcgttgcgct cactgcccgc 540
tttccagtcg ggaaacctgt cgtgccagct gcattaatga atcggccaaac gcgcggggag 600
aggcggtttg cgtattgggc gctcttcgcg ttcctcgctc actgactcgc tgcgctcggt 660
cgttcggtcg cggcgagcgg tatcagctca ctcaaaggcg gtaataccgg tattcacaga 720
attcagggga taacgcagga aagaacatgt gagcaaaaag ncagccaaag gccaggaacc 780
cgtnaaaagg ccgcgttgct ggcgttnttc cataggctcc gccccttga cgagcatnac 840
aaaaatct 848

```

```

<210> 196
<211> 511
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(511)
<223> n = A,T,C or G

```

```

<400> 196
canntatgac ctgattacgc caagcttggt accgagctcg gatccactag taacggccgc 60
cagtgtgctg gaattcgccc ttagcgtggt cgcgcccgag gtactttttt tttttttttt 120
tttttttttt ttttagggtt ataaaagccc ttttataaag ccatttttaa acaaaacaaa 180
aaaaaagttt acaaaagaaa aaaagatnca gaaaaagaat aacttgcttc atatgtccca 240
aaaaagagaaa aaaataaagg ggacaatgcc aacatgctca acaataaagg cttctttttc 300
ttattttttt aatacaaaat ncaagcaaaag gatacacata cttaaaacag agctcaggag 360
canacacgca ntccctggaaa ccttcaata aancaaaagc aggagtttgn tttttctttg 420
tctatgcana tacatacaga gactgggata tgtaaaaatt aagtatnaca aaagaccatt 480
acacgattct accaatgcac gttgcatctn g 511

```

```

<210> 197
<211> 816
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(816)
<223> n = A,T,C or G

```

```

<400> 197
gggcctctag agcatgctcg acggcccgcca tgtgatggat atctgcagaa ttccgcccttt 60
cgagcggccg cccgggcaagg tactaaggaa gttaaagttt gaatgtaacc actttattta 120
aaagggtttt ttctttaatt taaatgaaat ggggttgaag tgaacatgat ttgtgtgacc 180
atgttcgtga attacagatg caacatgcat tggtagaatc gtgtgatggg cttttgtgat 240
acttaatttt tacatatccc agtctctgta tgtatctgca tagacaaaga aaaaacaac 300
tcctgctttg cttttattga aggggttcca ggactgcgtg tctgctcctg agctctgttt 360
taagtatgtg tatcctttgc ttgtattttg tattaaaaaa ataagaaaaa gaagccttta 420
ttgttgagca tgttggcatt gtccccttta tttttttctc tttttgggac atatgaagca 480
agttattctt tttctgtatc tttttttctt ttgtaaactt tttttttgtt ttgtttaaaa 540
atggcctttt aaaagggcct ttataaccct aaaaaaaaaa aannnnnnna aaaaaaaaaa 600
gtcctcggcc gcgaccacgc taaggcgaa ttccagcaca ctggcggncg ttactagtgg 660
atccgagctc ggaccaagct tggcgtaatc atggncatag ctgttcctgt gtgaaatgtt 720
atccgctcac aattcccaca catacaaccc ggagcataaa gtgtaaacct ggggtgccta 780
atgagtgagc tactcaataa ttgcgttgcg ctcang 816

```

```

<210> 198
<211> 498
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(498)
<223> n = A,T,C or G

```

```

<400> 198
tgattcgcca agcttgggtac cgagctcgga tccactagta acggcccgcc agtggtgctgg 60
aattcgccct tcgagcggnc gncggggcag gtacaattca gagcagggtg ccatagaaac 120
aactaggntt gaaaaaactg taagacaatt cacagttgaa atcaaaccac cactgtgaat 180
gtgttaataa cttgccatat aacaacactt taacattgat cttgctaaat aaggctatga 240
ttcataagat gcatggattt ccaaagctgn ttaacattct tataaattaa ttcacaggat 300
tcaaatagtt gcttttttagc ttcaactggg tattagcaaa aatnatataa aatgatcccc 360
gtgcaagcac aaatttacct tccttctaaa taaaacatga cagattatat tacaacttga 420
tagcctctct tttaaaaagt ctgtgacatt attaaagagg tgacggaatg cttgntttgc 480
aaaccccaac acatctttt 498

```

```

<210> 199
<211> 837
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(837)
<223> n = A,T,C or G

```

```

<400> 199
nnnnnnntnn cantgggcct ctagagctgc tcgacggccg ccatgtgatg gatattctgca 60
gaattcgccc ttagcctggt cgcggccgag gtaccttgag atctgagcaa ctgtgttaat 120
gaagtaatat caatggtcca cagtgaagaa tgtgttgggg tttgcaaac aagcattccg 180
tcacctcttt aataatgtca cagacttttt aaaagagagg ctatcaagtt gtaataaat 240
ctgtcatgtt ttatttagga aggaaggtaa atttgtgctt gcacggggat cattttgtat 300
tatttttgc taaacccagt tgaagctaaa aagcaactat ttgaatcctg tgaattaatt 360
tataagaatg ttaaacagct ttggaaatac atgcattcta tgaatcatag ccttatttag 420
caagatcaat gttaaagtgt tgttatatgg caagtattta acacattcac agtggtttgt 480
tgatttcaac tgtgaattgt cttacagttt tttcaaacct agttgtttct atggacacct 540
gctctgaatt gtacctgccc gggcggccgc tcgaaggcg aattccagca cactggcggc 600
cgttactagt ggatccgagc tcggtaccaa gcttggcgta atcatggtca tagctgnttc 660
ctgtgtgaaa ttggtatccc gtcacaatt ccacacaaca tacgagccgg aagcataaag 720
tgtaaaagcct ggggtgccta atgagtgagc taactccatt aattgcgttg cgctcactgg 780
cccgtttnc agtcnggaaa cctgtctgcc anctgcatta atgaatcggc caccgccg 837

```

<210> 200
<211> 506
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(506)
<223> n = A,T,C or G

<400> 200
nnnnttgacc tgattacgcc aagcttggtg ccgagctcgg atccactagt aacggccgcc 60
agtgtgctgg aattcgccct tagcgtggtc gcggccgagg tactgcatcc ataatttatc 120
gccatgtgca acagctttgc gttttctaag gcacaatttt taatgaaatg atgtgtagat 180
ttcaatctaa taacagctca tccaaatgac aaatatggtc gaaatccctc cagtggctga 240
ggaaatttct gcacctatat ggaaccacac tgcaaagaac ccacttagca tgtaataaat 300
aatcgctagg catactcaat aagacacgga aaaattattg cttacataac agaaaaacat 360
ctacttgacc cctttttatg actacatcaa tctattagga gtgtatccat agtctacatt 420
cacaaaatgt catcttgact tatttgccat tgatttaagg cagaataaat agtccccctt 480
tccccagctt taacaacaaa aaacaa 506

<210> 201
<211> 864
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(864)
<223> n = A,T,C or G

<400> 201
ccnntanagc atgctcgacg gccgccccgg caggtacctt ggaagttagt tcattaatat 60
aggctgggtc atcaaataaa gcaaaacctt gcaatatcag ctagatttac actccgggac 120
gttgcccaaa ggtaggaaga aagcaggggg aaatatctca gtcatcattt ccaaagtcac 180
tatcaaaatc tgtgaggaag tttaatcttc caaagagtca atgtcagaca tcaggcctct 240
gttgccctgct tctctcgagg cactagatta ggagtcttca ataagagact taacatgagg 300
tatatggaag atgaggcacc gagataagtt catcattagg tgtgagcact gctcaccctt 360
gctggcaagt tctccttaag ggcctgaagc acaggtgtcc aaagaaaagc gttaagtcca 420
tcttaataga atctatgtgg tatatgatgt ggtcagcccc tggctctgtga tcagcaagaa 480
cctacagcac agattatgcc ctgcccactt caatgaatac ctactctcct ncattctcca 540
tcactttttt gctatcaaga ctccggacct tgcccattga gaagttaga gaggaactct 600
tgtggagagc tgggttaattt tctgccctgt gcgacaagtt tcaacttggc caagaaangg 660
agtcaagtta ttaaaaagca tcacaatgta gaatcttcca ggctggggtt tttggnnttt 720
tnggtggttn aanactgggg gnaaaagggg ggacctattt aaattccngg ccttttaaat 780
caaatgggcc aaaattaagt tcaaggaatg gaccattttt nggggnaaat ggttngaacc 840
ttntngggan ttccncctt ccct 864

<210> 202
<211> 505
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(505)
<223> n = A,T,C or G

<400> 202
gnntnanacn nttactaat antganttag tnccgactcg atccctctna ctncantnan 60
ancgntngaa ttgcccttnn tagcggccnt ccngncaggt acaaccagtt tggaaaacag 120

tntcacagtt	tttttaaaaa	ttacatatac	aaccancaac	tgaccagcc	atttcactcc	180
taggtattta	cccaagatna	actgaagtgt	agatacaagc	anagacttgn	gcacaagtgt	240
tcattggtaag	ctttactngc	antagctcca	aactanggac	aactcaaata	gccaacangg	300
aaatggacaa	attatgttac	tttcatacag	tggaatattc	tcttgtgata	aaaataantg	360
aacanttgat	acatggatga	atctcaaaat	aattatgctg	agtaaaagaa	gccagacaaa	420
atgtacagtg	catacagcta	ttcatgtggg	tgccagctcc	atcccccagt	gacctcttca	480
tacggncaga	gggtggcatg	gcanc				505

<210> 203

<211> 819

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (819)

<223> n = A,T,C or G

<400> 203

ggcctcngca	gcatgctcga	ncggccgcca	tgtgatggat	atctgcagaa	ttcgccctta	60
gcgtgggtcgc	ggccgaggta	cgccgggagag	caggaccgga	gcgcgggcca	agctggagat	120
ggatgatgct	gaccctgagg	aaagaaacta	tgacaacatg	ctgaaaatgc	tgtcagatct	180
gaataaggac	ttggaaaagc	tattagaaga	gatggagaaa	atctcagtgc	aggcgacctg	240
gatggcctat	gacatggtgg	tgatgcgcac	caaccctacg	ctggccgatt	ccatgcgtcg	300
gctggaggat	gccttcgtca	actgcaagga	ggagatggag	aagaactggc	aagagctgct	360
gcatgagacc	aagcaaaggc	tgtaggcccc	actggccccc	cacagctgcc	atgccaccct	420
ctgcccgtat	gaagagggtca	ctgggggatg	gagctggcac	ccacatgaat	agctgtatgc	480
actgtacatt	ttgtctggct	tcttttactc	agcataatta	ttttgagatt	catccatgta	540
tcaattgttc	acttattttt	atcacaagag	aattattccac	tgtatgaaag	taacataatt	600
tgctccatttc	cctgttggct	atttgagtgt	tccctagttt	ggagctattg	cgagtaaagc	660
taccatgaac	atttgtgcac	aagtctttgc	ttgtatctac	acttcagttt	atcttgggta	720
aatacctang	agtgaatgg	cttgggtcaa	tntgttggtt	ggatatgtaa	ttttttaaaa	780
aaaactngna	tactgttttc	caaactgggt	tgccccctc			819

<210> 204

<211> 840

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (840)

<223> n = A,T,C or G

<400> 204

gnnnnntttt	nnctnntgga	accctgtttg	nnaagctgct	cgacggccgc	catgtgatgg	60
atatctgcag	aattcgccct	tagcgtggtc	gcggccgagg	tacctnaga	tctgagcaac	120
tgtgttaatg	aagtaatagc	aatgggtccac	agtgaagat	gtgttggggg	ttgcaaaaaca	180
agcattccgt	cacctcttta	ataatgtcac	agactttttt	aaaagagagg	ctatcaagtt	240
gtaatatata	ctgtcatggt	ttatttagga	aggaaggtaa	atttgtgctt	gcacggggat	300
catttttgat	tatttttgct	aatacccagt	tgaagctaaa	aagcaactat	ttgaatcctg	360
tgaattaatt	tataagaatg	ttaaacagct	ttggaaatac	atgcacatcta	tgaatcatag	420
ccttattttag	caagatcaat	gttaaagtgt	tggttatatg	caagtattta	acacattcac	480
agtgtttgtt	tgattttcaac	tgtgaattgt	cttacagttt	tttcaaacct	agttgtttct	540
atggacacct	gctctgaatt	gtaccctca	gtcaccagca	aaagcatttc	cacctcttcc	600
aacccccaat	cagaccaactg	cattcagtg	tattggagga	ctttcatcac	agcttccagt	660
aggtgggtct	tggcacaggc	agnctgactg	gtatangaac	tggtgctctt	ggactccctg	720
cagtgaataa	cgaccttttt	gtacctgcc	ggcgccgcgc	taaggcgcaa	ttccacacac	780
tgcccgccgc	ttactagtng	gacccnaact	cgggtccaaan	cttggcggtat	tcattggtent	840

<210> 205

<211> 497

<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(497)
<223> n = A,T,C or G

<400> 205
nnnnttgacc tgattacgcc aagcttggtg ccgagctcgg atccactagt aacggccgcc 60
agtgtgctgg aattcgccct tagcgtgggc gcggccgagg tacatttact ataaaagctg 120
ttgcatttta gacaacttgt tgtttttatt ttttactggt tctcagaggc attttagaat 180
aaatacttta aatgaaagt agtataaccg atatagaaca ctggcccacc cagagcagta 240
acatcttttg gacggactca catatgaggt ggatcatttc agtttggtta atcttact 300
gtgtatagat aactataata tgtattgcat taatcacact acatagaaag gaaatgtcat 360
ggaagtgcgc tagtgaaaaa caaaaagtta cccattatgt ttattaaaga gtagggacta 420
gcttttggag tatgagaaa aaaatcagat atacttctc aggaacaata aatcactcac 480
ttgcctcacc tgttttt 497

<210> 206
<211> 820
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

<400> 206
gggcctntag aagcatgctc gagcgccgc cagtgtgatg gatatctgca gaattcgccc 60
tttcgagcgg ccgcccgggc aggtacatgt attgaagcta gaatcgagtc aagaaaaata 120
aagccccatt ctccaactgc aaaatgtgct tcccataat gaacactagt caccagcaca 180
gaataatctc caacattttc taaattctaa ttgccaaactg ttctatttta tatttgattt 240
atatttcatt tggagtctgt tacatggcag cttaggcaga ctagatcttg tttttccaa 300
tgcagcataa tgagtatgat ctatttcttt tcaaataatc tttgagatcc caggaaaaaa 360
aatgctctgc tccattgagc tataatgtaa atgtgtttgt ttaaaaaaca ggtgaggcaa 420
gtgagtgtgt tattgttctc gaggaagtat atctgatttt ttttctcata ctccaaaagc 480
tagtccctac tctttaataa aaataatggg taactttttg tttttcacta gcgaacttcc 540
atgacatttc ctttctatgt agtgtgatta atgcaataca tattatagtt atctatacac 600
agtgtgaagt ttaacaaact gaaatgatcc acctcatatg tgagtccgtc caaaagatgt 660
caggtctctg ggtgggcccag tgttctatat cgggtatact aactttcatt taaagtattt 720
attctaaaat gcctctgaga aacagtaaaa ataaaaacca caagttgcta aaatgcaaca 780
gcttttatag taaatgtcct tgggcccgcga ccacgcttag 820

<210> 207
<211> 496
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(496)
<223> n = A,T,C or G

<400> 207
cnnttgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgccca 60
gtgtgctgga attcgccctt agcgtgggtc gcggccgagg tacaaaaagac aaaatcagag 120
ttcaatttca gcagcaagac ttatcaagaa tttaatcact atttgacatc aatgggttggt 180
tgctctgga cgtccaaacc ctttgggaaa ggaatatata ttgaccctga aatcctagaa 240
aaaactggag tggctgaata taaaaacagt ttaaatgtag tccatcatcc ttctttcttg 300
agttacgctg tttccttttt gctacaggaa agcccagaag aaaggacagt aaatgtgagc 360

tctattcngg gaaagaaatg gagctggtat ttggactatt tattttcaca nggggtacaa 420
ggcttgaaac tttttataag aagtagtggt catcattctt ncattcccag agcagaaggc 480
ataaactgca caatca 496

<210> 208
<211> 810
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(810)
<223> n = A,T,C or G

<400> 208
gcatgctcga cggcccgcca gtgtgatgga tatctgcaga aattcgccct ttcgagcggc 60
cgcccgggga ggtactcctt gaggatggca gtctgtcagt gaaatgaaaa tgggaactca 120
agatgagcca ctttgcctta gcaatgagga gtgagtttag tccagtgtgt tcagtttatg 180
tcaacattca tttaatattg attgttgagc tttatgccct ctgctctggg aatggaagaa 240
tgatgaacac tacttcttat aaaaagtttc aagccttgta acccctgtga aaataaatag 300
tccaaatacc agctccattt ctttccccga atagagctca catttactgt cctttcttct 360
gggcttttct ctgacaaaaa ggaaacagcg taactcaaga aagaaggatg atggactaca 420
tttaaaactgt ttttatattc agccactcca gttttttcta ggatttcagg gtcaatatat 480
attccttttc caaagggttt ggacgtccac aggcaaccaa ccattgatgt caaatagtga 540
ttaaattctt gataagtctt gctgctgaaa ttgaactctg attttgtctt ttgtacctcg 600
gccgcgacca cgctaaggcg gaattccagc aactggcgcg ccggtactag tggatccgag 660
ctcgggtccaa gcttgcgta atcatgggca tagctgtttc ctggtgtgaa attgntatcc 720
gctcacaatt ccacacaaca tacgaaccgg aagcattaag tgtaaacctt ggggtgccta 780
atgagtgagc taacttacat taattgcgnt 810

<210> 209
<211> 495
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(495)
<223> n = A,T,C or G

<400> 209
cnnttgacct gattacgcca agcttggtac cgagctcgga tccctagtaa cggccgcccag 60
tgtgctggaa ttgcgccctta gcgtggtcgc ggccgaggta caactctcca gggcacaata 120
cgtttacagc tgccttttct tcacatactt ttctaattca gaactactca caattctaag 180
caaattccca ttcacgaagt ctgtccataa tgcgaccttc tcttttttta acatatacat 240
cttaaaaaaac aaatatataa aaaattctta ttttgttgga atgctttcaa tttttcacat 300
tttacatgat catcacattt atttcttata ttgaaaggca tggtttctgt tgacatgtcg 360
tgcaaagcca aaaaaaaaaa anaaaaaaaa aagggtcgga ttgcttttca attggtctaa 420
cacttttctt tgtctaggct ttggatttta aagttcatga cagccccacc accagtagaa 480
accccaaggc ttgca 495

<210> 210
<211> 820
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

<400> 210

```

gggcctcaga gctgctcgan cggccgccat gtgatggata tctgcagaat tcgccctttc 60
gagcggccgc ccgggcaggt acccacgttt tgctccacac tccttgaccg caggggctcg 120
gacacaaacc cctgtcacca ggagagtcag tcagcactac ttgggagggc taaagggaaa 180
tttgaaata aaattccaaa gtttgagta aaaaaattca agtggtgatt ttatattctt 240
tccttttctg acacagccta aagcgtaggg ggaacatgtg tttatctgtg ggagataaac 300
aagatggagt cccaaagact ttaacaaaat atttttttaa aaatccacta gaatagaaaa 360
tacattattt agatatactt tatgctgaga gtgagtatat atgcttgtcc tatttaaaact 420
tgtgagaaaa agtggatatcc cttgatacat ttagaaaatat gggggctatc ttgtttcatt 480
gtgggggtgg ggcagaagga gaataaatgc aggatgacct tgttgaagga atcttancat 540
ggccaacagg ggacgttttc agtcgattac caggaaatgc aagccttggg gtttctactg 600
gtggtggggc tgtcatgaac tttaaaatcc aaagcctaga caaggaaaag tgttagacca 660
attgaaaagc aatccagccc tttttttttt nnnntttttt tttggctttg cacgacatgt 720
caacagaaac catgcctttc aatntaagga aataaatgtg atgatcatgt aaaatgtgaa 780
aaattgaaag cattncacca aataaggaat tttttatttn 820

```

<210> 211

<211> 499

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(499)

<223> n = A,T,C or G

<400> 211

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canttgactg attacgccaa gcttggtacc gagctcggat ccactagtaa cggccgcccag 60
tgtgctggaa ttcgccctta gcgtggctgc ggcccgaggt acaactctcc agggcacaaat 120
acgttttacag ctgccttttc ttcacatact ttctaatcc agaactactc acaattctaa 180
gcaaatcccc attcacgaag tctgtccata atgcgacctt ctcttttttt aacatatata 240
tcttaaaaaa caaatatata aaaaattctt attttgctgg aatgctttca atttttcaca 300
ttttacatga tcatcacatt tatttcttat attgaaagge atggtttctg ttgacatgtc 360
gtgcaaaagc aaaaaaaaaa aaaaaaaaaa aagggtcggg ttgcttttca atngggctca 420
acacttttcc ttgtctagge tttggatttt aaagtccatg acagccccac caccagtaga 480
aaccccaagg cttgcattt 499

```

<210> 212

<211> 821

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(821)

<223> n = A,T,C or G

<400> 212

```

gggcccantan agcatgctcg agcggccgcc atgtgatgga tatctgcaga attcgccttt 60
tcgagcggcc gcccgggcag gtacccacgt tttgctccac actccttgac cgcaggggct 120
cggacacaaa cccctgtcac caggagagtc agtcagcact acttgggagg gctaaaggga 180
aatttggaata taaaattcca aagtttgagg taaaaaaatt caagtgttga ttttatattc 240
tttccctttc tgacacagcc taaagcgtag ggggaacatg tgtttatctg tgggagataa 300
acaagatgga gtcccaaaga ctttaacaaa atattttttt aaaaatccac tagaatagaa 360
aatacattat ttagatatac tttatgctga gagtgaat atatgcttgt cctattttaa 420
cttgtgagaa aaagtggat cccttgatac atttagaaat atgggggcta tcttgtttca 480
ttgtgggggt ggggcagaag gagaataaat gcaggatgac cctgttgaag gaatccttagc 540
atggccaaca ggggacgttt ccagtcgatt accaggaaat gcaagccttg gggtttctac 600
tgggtggggg gctgtcatga actttaaaat ccaaagccta gacaaggaaa agtggttagac 660
caattgaaaa gcaatccagc cctttttttt tttttttttt ttggctttgc acgacattgt 720
taacagaaac catgcctttc aatattagaa ataaatgtga tgatcatgtt aaatgtgaaa 780
aattggaagc cttcagcaaa ataagaattt ttattntttt n 821

```


<210> 213
<211> 497
<212> DNA
<213> Homo Sapien

<400> 213
acttgacctg attacgcca gcttggtacc gagctcggat ccactagtaa cggccgccag 60
tgtgctggaa ttgcgcccta gcgtggtcgc gcccgaggta caaaacaata gtctaaacta 120
acacgaactg ttacctggtc tattaagga tacacggat ccactaaaca gacagatcct 180
tatttccttg cttgatgttg caaagccctt ggcaaccagg ggcaaaggtc actgggggtt 240
gactaaactg ggctgagtg cagctatgac tgccttcag atttttgagt tgttttgaa 300
attaaaagct tctaaaagtt gcatcaacat cctcctaagc ccccatagga ttgtaacacc 360
accacaaaag gccaccaaca ctttttaaac aaagtgaata ctgtctgaca ccaatcatct 420
tgaaaactcc atggcaagtg cattagctat gatttcatca cttacaggta gagaagctta 480
ctgtctactg gtgtggg 497

<210> 214
<211> 817
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (817)
<223> n = A,T,C or G

<400> 214
ggccttanag ctgctcgcg gccgccatgt gatggatatt tgcagaattc gccctttcga 60
ggggccgccc gggcaggtag tctcagtcatt atgcagaaat actttttttt taattaatag 120
ttacaggctt gttggtccag tgggatttgg gtagggggag aaagatacct tctaaaatgg 180
atcaatagaa ccaaaataat acagcatgtt ctataaccac aaggaaatca aatgatcctg 240
tcattgattc agttagtcatt aaccatgtta gcagtgctaa atgcatttta gaaatggtga 300
cttctgtggt tttcctagca tttgtctcta acaaatgggtg aaataattac tcatggccct 360
ctctgccatt gtctttcatt tttcacagt gaaattagac ccctttactt caccattctg 420
ccactgcaaa ttaagtataa agaaaatagc aagagtgtcc acaccagtag acagtaagct 480
tctctacctg taagtgtatg aatcatagct aatgcacttg ccatggagtt ttcaagatga 540
ttggtgtcag acagttttca cttgttttaa aaagtgttgg tggccttttg tgggtgggtt 600
acaatcctat gggggccttan gaggatgttg atgcaacttt tagaagcttt taatttcaaa 660
aacaactcaa aaatctgaag gacagtcata gctgccactc agccccagtt agtcaaacc 720
cagtgacctt tgccctgggt tgccaagggc tttgcaacat caagcangga aataaggatc 780
tgctgttag tgggataccg ggtatcctt aatagac 817

<210> 215
<211> 495
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (495)
<223> n = A,T,C or G

<400> 215
acttgacctg attacgcca gcttggtacc gagctcggat ccactagtaa cggccgccag 60
tgtgctggaa ttgcgcccta gcgtggtcgc gcccgaggta catgctgact tcttggtatc 120
ttttaaggcc taattttccc ttccttgaga ttactgtagt gtgttcagc taatttctat 180
ttggaacga gttggaacag ctgaaaacta ggtattattg aaggcaaacg agcctcacgt 240
cagtttttta tcagctcatt tgggaagttt tttttttttt ttttttaatt aattagaaag 300
taggctgggc acggtggctc atgcctataa tcccagcact tggggaggcc gaggatctcc 360
tctctggtg atcacttgag ggcaggagtt aagagaccat cctggccaac atgatgaaac 420
cctgtctcta ctaaaatac aaaaagtagc tgggctggtt ggcatactct tacaatccca 480
gtacttggg aggc 495

<210> 216
 <211> 823
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (823)
 <223> n = A,T,C or G

<400> 216
 gggcctcaga gcatgctcgn cggccgccag tgtgatggat atctgcagaa ttcgcccttt 60
 cgagcggccg cccgggcagg tacttttttt tcttttttta catctgattt taatgcttcg 120
 ttaacttcaa aaggaaactgg tagagttcag aaggtgagct gttgtttttc taaacctctt 180
 cccaggaagg ggacattgac acttgaattt ttgtcacctt ttccctcatt agaaggaaag 240
 tagaaagcct tactgttaga tttttaaaaa aaaatccatc tcaccccata ttggtcttaa 300
 ataagtatag actaattaac ctaagctacc ttttaacaac tagaatttag atgggttcat 360
 atatgtgaga aaaacctgaa tataggacag gggtcctact tttttcccca cctctgtcgc 420
 ccaggctaga gtatagtggg gtgatcttgg cccactgcaa cctctgcttc ctaggttcaa 480
 gtgattctcc tgcctcagcc tcccaagtag ctgggattgt aagagtatgc caccacgccc 540
 agctactttt tgtattttta gtagagacag ggtttcatca tggtggccag gatgggtctc 600
 taactcctgc cctcaagtga tccaccagag aggagatcct cggcctnccc aagtgtcggg 660
 attataggca tgagccaccc gtgcccagcc tactttctaa ttaattaaaa aaaaaaaaaa 720
 aaaaacttnc caaatgagct gatnaaaaac tgacgtgang ctgctttgcc ttcaataata 780
 cctagttttc actggtccaa ctggtttcca aatagaaatt acg 823

<210> 217
 <211> 827
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (827)
 <223> n = A,T,C or G

<400> 217
 nnnnnnnngc ctntnnagca tgctcgacgg cggccatgtg atggatatct gcagaattcg 60
 cccctttcag cggccgcccg ggcagggtact gtatcatttg cagatgtgac gtcaccgaca 120
 accagagtga agtggcggac aaaactgagg attacctgtg gctgaagttg aaccaagtgt 180
 gttttgacga cgatggcacc agctccccac aagacaggct cactctctca cagttccaga 240
 agcagttggt ggaagactat ggcgagtcac actttacggg gaaccagcaa ccttccctct 300
 acttccaagt cctgttctcg acagcgcagt ttgaagcagc agttgccttt cttttccgca 360
 tggagcggct gcgctgccat gctgtccatg tagcactggg gctgtttgag ctgaagctgc 420
 ttttaaagtc ctctggacag agtgctcagc tccctcagcca cgagcctggg gaccctcctt 480
 gcttgccggc gctgaacttc gtgcggctcc tcatgctgta cctcggccgc gaccacgcta 540
 agggcggaatt ccagcacact ggcggccggt actagtggat ccgagctcgg taccagactt 600
 ggcgtaataca tgggtcatagc tgtttctctg gtgaaattgt tatccgctca caattccaca 660
 caacatacga gccggaagca taaagtgtaa agcctggggg gcctaagtga tgagctaact 720
 cacattaatt gcgttgcgct cactgcccgc ttttcaatcg ggaaacctgt cgtgccagct 780
 gcattaatga atcgggnaac gcccgggan aagcggtttg cgtattt 827

<210> 218
 <211> 498
 <212> DNA
 <213> Homo Sapien

<400> 218
 cacttgacct gattacgcca agcttggtag cgagctcgga tccactagta acggccgcca 60
 gtgtgctgga attcgcctt tcgagcggcc gcccgggcag gtactttttt tttttttttt 120
 taattccac aacaacccat ttcaaatga gaaaactagg ttgagtgact tgtccacagt 180

```

tccaaagcta ataaaaatga tgaggcatat ttctcttctg ggcccactgt attcagttct 240
ttgttcttta cactgagtg cgaaaaaaaaa aaatcagact attttgattc tagaaaagtga 300
gataattgaa aatgttaaca tatttctcca aaactgatca gactgtggag tctgtcactt 360
ttttggtata ataaaggagt ttgaagaaac aaatgacatc attcctgatg atggttagccc 420
actccaacaa aggcgtatat atgtaggcaa gtttgaagat atctataaga gcattaaaaa 480
gcaagtgcac cattgtgg

```

```

<210> 219
<211> 818
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(818)
<223> n = A,T,C or G

```

```

<400> 219
ggcctntnga gctgctcgac ggccgccatg tgatggatat ctgcagaatt cgcccttagc 60
gtggcgcggc cgaggtacct agaaaacaga aacttgagta gacatggtaa tgaccagaaa 120
aggctatctt tatacatttc ttttgctacg cttcaaattc atgtcaccta aaagttgtga 180
agtgcacaaa acaaatctac ttaactgaaa attattttca atgaatggga tgtttagaac 240
tctgtgaggg tttttaaggt cttttcgaat agcaaattct aatgaggctt ttttaagttg 300
gcaattttaa cctatacaag aaataaaaaa tcaccagtgt ggctgggcag aatataata 360
ttttctcaaa tattgtttgt ttgttttttc cctgcactgt atccatggtc ccatgatgaa 420
actgttatat tgctgatata tttattggaa tatgtgggac aacttccttt ccaactcaaca 480
tatggattgg tagtttaaaa taattccttt ctattaagca aatgtgtggc taaggcacat 540
ttaaatagcc cattaaacca atgagatgac aatgtgttac cctcagagaa agcttaattt 600
ttggagtaat caattacaca tatcacagaa tgtctcatga gaacattttt ggctaggtct 660
accaatttat catgcaataa attatagatt ttcatgtgag gcaaagatgc tgattcatca 720
ttagtaacat ggtcacaaat aatcatttat tttattttgg taacatctgt ctttcctgtg 780
gggaaactta ctatatgctc tacgttaatt aaattaaa 818

```

```

<210> 220
<211> 497
<212> DNA
<213> Homo Sapien

```

```

<400> 220
cacttgacct gattacgcca agcttggtag cgagctcgga tccactagta acggccgccca 60
gtgtgctgga attcgccctt tcgagcggcc gcccgggcag gtacagccat gaaattgttg 120
ctactcatag aaagtcttag tatagtttgg tttaaacatt ttaaaattgc aaataaatat 180
agatagataa tatcatgatg agaaggtcac gggaagcctg gagatttcag ggtgctcttt 240
cataattgga gcgagaatca tgtaacagtt aagaaactaa actcttgagc cttcatagtc 300
tttgctttct cccattttat ttatctgata ttatataccc tctttaatta tagactggac 360
tgaaatattt tatttttgtt ttattataaa aaatcctact cgtctttaac atgttctctt 420
aaagagtgtt tcatatataa atactttccc cccaaaatat aaagaggcta accactatag 480
tattgaaaga ttgaaag
497

```

```

<210> 221
<211> 831
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(831)
<223> n = A,T,C or G

```

```

<400> 221
cnnnannggg cctntanagc atgctcgacg gccgccatgt gatggatata tgcagaattc 60
gcccttagcg tggtcgcggc cgaggtaaaa tgaaagtatg agctacctct ctgaagtctg 120

```

```

gaaaccttga gagtattaag gttacatgca taaaatcttt aaaatggaag tgtcattaca 180
tggtaaacca attcaaatta aaaataatct catgctgtga aagcaaaaata tataactggt 240
ttaccatttc ataggtaatt gcacgtcttt gttacatctc aatagtttct ttgtatttgt 300
tgcaatcacc ctcttctctc tcaacactct tttctacctc catgtaactg ctgttgtagaa 360
ttctttataa tattctcacc aatgtttaaa gatgaagttt aaagtgttta caaaggaagc 420
attttaactc ctcttagaac tgagccttta aatttggttt tagacaccct aggtctttct 480
ttcaatcttt caatactata gtggttagcc tctttatatt ttggggggaa agtatttata 540
tatgaacac tctttaagag aacatgttaa agacgagtag gattttttat aataaaaaca 600
aaataaaaata ttcagtcga gtctataatt aaagagggtg tataatatca gataaataaa 660
tggggagaaa gcaaagacta tgaaggctca agagtttagt ttcttaactg gtacatgatt 720
ctcgctncaa ttatgaaaga gcaccctgaa atctncangc ttncctgac cttctcatca 780
tgatattatc tatctatatt tattgcaatt ttaaaatggt taaaccaaac n 831

```

<210> 222

<211> 497

<212> DNA

<213> Homo Sapien

<400> 222

```

cacttgacct gattacgcc agettggtac cgagctcgga tccactagta acggccgcc 60
gtgtgtgga attcgccctt agcgtggtcg cggccgaggt actctttctc tccctcctc 120
tgaatttaatt tctttcaact tgcaatttgc aaggattaca catttcaactg tgatgtatat 180
tgtgttgcaa aaaaaaagtg tctttgttta aaattacttg gtttgatgaat ccatcttgct 240
ttttcccat tggaaactagt cattaaccca tctctgaact ggtagaaaaa catctgaaga 300
gctagtctat cggcatctga cagggtgaatt ggatggttct cagaaccatt tcacccagac 360
agcctgttct catcctgttt aataaattag tttgggttct ctacatgcat aacaaaccct 420
gtcccaatct gtacataaaa agtctgtgac ttgaagttta gtcagcacc cccacaaact 480
ttatttttct atgtgtt 497

```

<210> 223

<211> 822

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(822)

<223> n = A,T,C or G

<400> 223

```

gggcctnaga gctgctcgnc ggccgccatg tgatggatat ctgcagaatt cgcccttcga 60
gcgccgccc ggcaggtac tttattttca aaaaactcat atgtcgcaa aaacacatag 120
aaaaataaag tttggtggg gtgctgacta aacttcaagt cacagacttt tatgtgacag 180
attggagcag ggttggttat gcatgtagag aaccctaaact aatttattaa acaggatgga 240
aacaggctgt ctgggtgaaa tgggtctgag aaccatccaa ttcacctgtc agatgccgat 300
agactagctc ttcagatgtt tttctaccag ttcagagatg ggttaatgac tagttccaat 360
ggggaaaaag caagatggat tcacaaacca agtaatttta aacaaagaca ctttttttt 420
gcaacacaat atacatcaca gtgaaatgtg taatccttgc aaattgcaag ttgaaagaat 480
taaatccaga ggaggggaga gaaagagtac ctgcggcgcg accacgctaa gggcgaattc 540
cagcacactg gcggccgtta ctagtggatc cgagctcggt accaagcttg gcgtaatcat 600
ggtcatactg gtttcctgtg tgaaattgtt atccgctcac aattccacac aacatacgag 660
ccggaagcat aaagtgtaaa gcctggggtg cctaagtgtg gagtaactc acattaattg 720
cgttgcgtc actggcgcgt tttcagtcng gaaacctgtc gtgccagctg cattaatgaa 780
tcggccaacg cgccgggaga ngcngnttgc gtattgggcc cn 822

```

<210> 224

<211> 494

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(494)

<223> n = A,T,C or G

<400> 224

cncttgacnt	gattacgcca	agcttggtac	cgagctcgga	tccctagtaa	cgcccgccag	60
tgtgctggaa	ttcgccctta	gcgtgggtcg	ggccgaggta	cttttttttt	tttttttaac	120
caactcaata	tgtgtttgat	gatagtgaat	tgataaaacc	cgaagctttt	ccctgtaaat	180
cttacatctt	tgccttttaa	gaatgggtta	caaccatcac	tagatcacag	tagtgccctaa	240
tgaaggttga	gaaccgtagg	agaggctctc	atgctgtaaa	taatgttgca	ggctaataac	300
ctttcatcac	ttcctttgtg	cgcttcctgc	cttaagtgc	aagtagcaac	atggcttggg	360
tccctgtgc	agcatcagct	tatgctgcca	caagtcagtt	tgcaccctag	gtgcccagga	420
gctagtatcc	ttagatcttt	ctatcgctaa	cttaattctc	ttcggtattt	atctgaccct	480
ctaactccat	gtct					494

<210> 225

<211> 822

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(822)

<223> n = A,T,C or G

<400> 225

gggccttnga	gctgctcgnc	ggccgccagt	gtgatggata	tctgcagaat	tgcctctcg	60
agcgcccgcc	cgggcaggta	ctttaatttt	gcttggtcaa	atgatctaca	cttacatttt	120
gcaaatcttt	ttttttaaat	tttttaaatt	ttatatcttt	tttccagcca	actcaaggcc	180
aaaaaaaaat	tcttaatata	gttattatgc	gaggggaggg	gaagcaaagg	agcacaggta	240
gtccacagaa	taagacacaa	gaaacctcaa	gctgtgaggt	caatttgtaa	ttaaaagaat	300
acttaagatta	gatgaacaca	acactcagaa	atactctagg	agagctgaaa	aagaagggaac	360
agatgttaac	aaaacaaatt	aaggctgctg	gggaacctga	gtccatgtta	agcttgggtt	420
gactgtaaag	aatttttttt	tttaatgcaa	gttagacatg	gagttagagg	gtcagataaa	480
taacgaagag	aattaagtta	gcatagaaaa	gatctaagga	tactagctcc	tgggcacctta	540
gggtgcaaac	tgacttggg	cagcataaag	tgatgctgca	caggggacct	aagccatggt	600
gctacttgct	acttaaggca	ggaagcgcac	aaagggaagt	atgaaagggt	attagcctgc	660
acattattta	cagcatgaga	gcctctccta	cggttctcaa	ccttcattag	gcctactgtg	720
atctantgat	ggntgtaccc	attcttttaa	ggcaaagatg	taaggattta	cagggaaaaag	780
cttcgggttt	tatcaattca	ctatcatcaa	acacatattg	ng		822

<210> 226

<211> 498

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(498)

<223> n = A,T,C or G

<400> 226

anntaaacta	tgacctgatt	acgccaaact	ggtaccgagc	tccgatccac	tagtaacggc	60
cgccagtgtg	ctggaattcg	ccctttcgag	cgcccgcccc	ggcagggtacc	ctctcatata	120
tgcaaacaaa	tcgagactag	gcctcaggca	gagactaaag	gacatctctt	gggggtgcct	180
gaagtgtatt	ggacccttga	gggcagacac	ctaagtagga	atcccagtg	gaagcaaagc	240
cataaggaag	cccaggattc	cttgtgatca	ggaagtgggc	caggaaggtc	tgttccagct	300
cacatctnat	ctgcatgcag	cacggaccgg	atgcgccac	tgggtcttgg	cttcctctcc	360
atcttctcaa	gcagtgtcct	tgttgagcca	tttgcatcct	tggtccagg	tggtccctc	420
agtctggact	ctaccacttg	ggtctccaga	ttttctgtta	cgctccttgg	ggcaggata	480
tttctggaag	tcactccg					498

<210> 227

<211> 815
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

<400> 227
gggcctctna agctgctcga cggccgccat gtgatggata tctgcagaat tcgcccttag 60
cgtggctcgc gccaggttac attgatgggc tggagagcag ggtggcagcc tgttctgcac 120
agaaccaaga attacagaaa aaagtccagg agctggagag gcacaacatc tccttggttag 180
ctcagctccg ccagctgcag acgctaattg ctcaaacttc caacaaagct gccagacca 240
gcacttggtg tttgattctt cttttttccc tggctctcat catcctgccc agcttcagtc 300
cattccagag tcgaccagaa gctgggtctg aggattacca gcctcacgga gtgacttcca 360
gaaatatcct gaccacaaag gacgtaacag aaaatctgga gacccaagtg gtagagtcca 420
gactgaggga gccacctgga gccaggatg caaatggctc aacaaggaca ctgcttgaga 480
agatgggagg gaagccaaga cccagtgggc gcacccggctc cgtgctgcat gcagatgaga 540
tgtgagctgg aacagacctt cctggcccac ttctgatcac aaggaaatcct gggcttcctt 600
atggctttgc ttccactggg attcctactt aggtgtctgc cctcaggggt ccaaatact 660
tcaggacacc ccaagagatg toctttaagtc tctgctgagg cctantctgc atttggttgc 720
atatatgaaa aggtacctgc ccgggccggc cgttcnaang gcgaatttca gcacactggc 780
ggncgntact agtggatccc aactcgggtac caagc 815

<210> 228
<211> 512
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(512)
<223> n = A,T,C or G

<400> 228
annnnnttn acctannact atgacctgat tacgccaaact tggtagcgag ctccgatcca 60
ctagtaacgg ccgccagtgt gctggaattc gccctttcga gcggccgccc gggcaggtac 120
taggtttgca aaaccaatag catgcacatg tgttgggctg aggttcatgt gtcagagact 180
cagttgtaga aggaactttg aatctggcag gcacttaact gtggctgctc agaactaatg 240
tatctggggc tgcttgagca ggggctgagg tcagaggcag ggagtgaact ctccatcac 300
cttgactcag acccagctcc gcaggagctc catggctcct cctggagctc atgtggagtg 360
caaggctccg gagtgggggc gctgacagaa acaaactctg ggggatcagc cagggtcagc 420
aggggacaga gatcatgtct tttagaagaa tgtgggcttc ctgacctata gaagggcagc 480
tgttcacccc ctgcagatga tagcagggat ng 512

<210> 229
<211> 815
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

<400> 229
gggcctnaga gcatgctcga cggccgccat gtgatggata tctgcagaat tcgcccttag 60
cgtggctcgc gccaggttac tttttttttt tttttttttt ttcagagata ggttcttact 120
atgctgccct ggctggagtg cagtggcttt cttaggggca atcacagctc actgcagcct 180
ggaactcctg ggctcagcct cctaagtagt tgagactacc aatgcacgcc accatacctg 240
gccttagata cccctgtat cctggaactc actccttata agagacactg aatgtggaag 300

```

tcttcgcaga tattaagggc actgcccagt tcctgtcttt gaattattgg gccaaacaaca 360
gaaaggcgct cctgaggccc cagatcatcc ctgctatcat ctgcaggggg tgaacagctg 420
cccttctata ggtcaggaag cccacattct tctaaaagac atgatctctg tcccctgctg 480
accctggctg atccccccag atttgtttct gtcagcgccc cactccccgg accttgctact 540
ccacatgagc tccaggggat accatggagc tcctgaggag ctgggtctga gtcaaggatg 600
atggagagct cactccctgc ctntgacctc agcccctgct caagcagccc cagatacatt 660
agtcttgagc agcccagtta agtgccctgcc agattcaaag ttccttctac aactgagtct 720
ctgacacatg aaccttaagc ccaacacatg tgcattgctat tgggttttgc aaacctagta 780
cctgnccggg cgggcccgttc gaaanggcga attct 815

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<210> 230
<211> 502
<212> DNA
<213> Homo Sapien

```

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<220>
<221> misc_feature
<222> (1)...(502)
<223> n = A,T,C or G

```

```

<400> 230
tnnanctana cttgacctga ttaagccaac ttgggtaccga gctcggatcc actagtaacg 60
gccgccagtg tgctggaatt cgccttttct agcggccgccc cgggcaggta cacagagatg 120
cggctccagct gcaggctcgt gtccccgttg taggtgcggg tggggtcgat gccatgttca 180
tactgatca cctcccagaa cttggcaccg atctggtagc cactactgacc agcctggatg 240
tgacagatgt cctcatggtt taaaatttaa tttttttgct cgctcaagg tatgtatggg 300
gcaagaaaat aagtaatttt ttttctccgc aggtcgagg ctggaagggt ggaatgcgcc 360
ccagaggctg gagcagcgag gtgcaaacgc gacggcagga aggttctgag agccccgct 420
acctcgccg cgaccacgct aagggcgaat tctgcagata tccatcacac tgcggccgct 480
cgagcatgca tctagagggc cc 502

```

```

<210> 231
<211> 817
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(817)
<223> n = A,T,C or G

```

```

<400> 231
nngggcctct nnagctgctc gacggccgccc atgtgatgga tatctgcaga attcgccctt 60
agcgtggctg cggccgagggt acgccccgct ctcagaacct tcctgccgtc gcgtttgcac 120
ctcgtgctc cagcctctgg ggcgcattcc aaccttcag cctgcgacct gcggagaaaa 180
aaaattactt attttcttgc cccatacata ccttgaggcg agcaaaaaaa ttaaatttta 240
accatgaggg aaatcgtgca catccaggct ggtcagtggt gctaccagat cggtgccaag 300
ttctgggagg tgatcagtga tgaacatggc atcgacccca ccggcaccta ccacggggac 360
agcgacctgc agctggaccg catctctgtg tacctgcccg ggcggccgct cgaaagggcg 420
aattccagca cactggcggc cgttactagt ggatccgagc tcggtaccaa gcttggcgta 480
atcatgggtc tagctgtttc ctgtgtgaaa ttgttatccg ctcaaatc cacacaacat 540
acgagccgga agcataaagt gtaaaagcctg ggggtgcctaa tgagttagct aactcacatt 600
aattgcgttg cgtcactgc ccgctttcca gtcgggaaac ctgtcgtgcc agctgcatta 660
atgaatcggc caacgcgcgg ggagaggcng ntgcgtatt gggcgctctt ccgcttctc 720
gtcacttga ctgcgttgcg ctgcgtcgtt cngcttgcgg cnanccggat tcagcttact 780
taaaggcggt aataccggtt atccaccaga attangg 817

```

```

<210> 232
<211> 481
<212> DNA
<213> Homo Sapien

```

<400> 232
actatgacct gattacgcc agcttggtac cgagctcgga tccactagta acggccgccca 60
gtgtgctgga attcgccctt tcgagcggcc gcccgggcag gtacaaattt gttgtgtttt 120
ttatgttcta ataatactga gacttctagg tcttaggtta atttttagga agatcttgca 180
tgccatcagg agtaaaattt attgtggttc ttaatctgaa gttttcaagc tctgaaattc 240
ataatccgca gtgtcagatt acgtagagga agatcttaca acattccatg tcaaattctgt 300
taccatttat tggcatttag ttttcattta agaattgaac ataattattt ttattgtagc 360
tatatagcat gtcagattaa atcatttaca acaaaagggg tgtgaacctt agactattta 420
aatgtcttat gagaaaattt cataaagcca ttctcttgtc attcaggtcc agaaacaaat 480
t 481

<210> 233
<211> 809
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(809)
<223> n = A,T,C or G

<400> 233
gggcctctnn agcatgctcg acggccgccca tgtgatggat atctgcagaa ttccgccctta 60
gcgtggtcgc ggccgaggtta caaaaagatac tggtcacccc attagagaac tgatttgaag 120
ttactcttcc ctgtgagggc tctgtcatct taactgtatt cacatacttt caactgttcc 180
ccttgctgct aacctcaggt tctttagttc atctatctgg cagagctgat ttggggaaaa 240
caagacaaac ctgtcaggt tttcttaata aataagcagt tgtcatgttt caagagtttt 300
agaaatgagc aataatcaag gaagaggaca acgattgcat acgtttataa tatttagaac 360
atcttttgcc acaataaaca ctggaaacca cccacttgtg gacaccaaac atttggattt 420
gtatattttt tggcattccc tcaacttaat cctctcatcc ttaaaaattt tcagaaattt 480
ttgcagcaac aaacactgat tgcaacatat gatttagggg agatttatga accatttttt 540
cactgaaata catcaacagg agtgagttag ctgagtgacc accccagcat ggagaaaact 600
gtagtttaca gattcttctg gagcattttt atttctagat tgcagtggaa gtctaaccct 660
ccttgagat gtctgcctta aagggtcttt ggccagggtc ctctgtagag ccatagtcca 720
gatctactct atttgngtgc tccttacaac atcagaacag caactctcaa tccggatcat 780
cccagaatgc cgctgagtca cagcgtggg 809

<210> 234
<211> 482
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(482)
<223> n = A,T,C or G

<400> 234
actatgacca tgattacgcc aagcttggtta ccgagctcgg atccactagt aacggccgcc 60
agtgtgctgg aattcgccct tcgagcggcc gcccgggcag gtactgaaaa gaagatagtg 120
ccatttgaaa caacagatgc atcttttata cattttcaca agttingttt tcatattttt 180
aaaggcccca tttatctgta acagtgggtat ttttatttag agtatcggct acttaatata 240
tacatgcaac aatatatgct ttaatagtca tttaactttt angaatattt catnacatta 300
agtgggttaag catagcggtta aaagagtgga atataaggaa tannaanntn tngaaaatac 360
gctgctannt tcattngcan actatagtag aatggagatg cccataaaaag tgatcattgc 420
ccaactgaat tcctaccng aactaacatg tgattctcaa gtgggganaa atattattaa 480
aa 482

<210> 235
<211> 474
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(474)
<223> n = A,T,C or G

<400> 235
acttgacctg attacgccaa gcttggtacc gagctcggat ccactagtaa cggccgccag 60
tgtgctggaa ttcgccctta gcgtggctgc gcccgaggta cattacttgg tgtaaactt 120
gttggcagtg gtagccctt ttcagaaagc aacttgctgt aagtcagggt gtccgttcca 180
accttcagct agtgaaaagg tagtaacaaa tggtaaacaa gagaatgatt gtttaaacct 240
atctgtggac acttaatgca actgtttaaa aatgataatc acgagttatg tagcaactg 300
gaaatatatt tacagaacat taatggagaa gcagggacac gaagtattat atactacagt 360
tataactcaa cagtcattat atgccggta tttaccagtc atttaaccag ttcattataa 420
ctgtttaaaa atatatatgc ttatagtcaa aagctgttgt ggtgtgtgtg ttgn 474

<210> 236
<211> 819
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(819)
<223> n = A,T,C or G

<400> 236
gggccttnna gctgctcgnc ggccgccagt gtgatggata tctgcagaat tcgccccttc 60
gagcggccgc ccgggcaggt actttttttt tttttttttt tttttattt taactttatt 120
tttattgntg acactattac agatagaatg accacaacca tattaacaaa ccaaaaaacct 180
gtgcacagaa acaagatgaa gaaaatatat caagatgtta aacacactct ttggatggtg 240
aaaacatggg tgagtttctc ttctacattt ctgtaacttc aaagtttcta taatgaacac 300
atttcataata taatggaaat atatgtagta aaggtggact accaaaacac tagaatgatg 360
acctttcaag gaaaccgaaa caaaataacc ataattccac aacaaccaca caactatttc 420
tgtnttttca tctttcttcc catctttgac atttatgcat acttatcact aacaccctaa 480
taatcacaga ctagtgcaca gatcaagatg ttaacagtta attgtgtgtg ggtgttgga 540
atatgtgtga attttcttta ctgaatttcc aaagttttgt atgagtatgt attatatttg 600
taatggaaaa tacatacata aaatttatta ccaaaacacc aaagattatt taagggaatt 660
tgagacaaaa tatttaacca aattcccaca atgacaacac tatttttagtt attttccaca 720
tcttttcatt taagacttta tgcacacata tttaacactg gtatcacaa gctgggcact 780
gaaacaagga tnganggaac nggatcagga tgttagccg 819

<210> 237
<211> 483
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(483)
<223> n = A,T,C or G

<400> 237
agcttgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgccca 60
gtgtgctgga attcgccctt agcgtggctg gcccgagggt actaagctca gcatgtctca 120
tggtcaatta ctgcgtattt ccaaaaaatg tgtgtgttgg tcttgagaaa attctttagc 180
cccttgacac cagaattatc tccactgtag aaaaaataga caattatagt ctaacaggta 240
aatcacaaaa attcttcagc cacacttctt gggttcaaag gtggttttct tactcagtaa 300
tattgtaacc ctgggcaagt tatttaactt gtctaagtct cagtttctcc atctgtaaaa 360
tgaggataat cacaatatct actacataat gttcttctga agatgtaatg agataatcca 420
tgtnaaatat tcanacagca cataggaatg ggtcatttaa tgtttatcat tacttgccca 480
ttt 483

<210> 238
 <211> 815
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(815)
 <223> n = A,T,C or G

<400> 238
 gggccentnn agctgctcgn cggccgccag tgtgatggat atctgcagaa ttcgcccttt 60
 cgagcggccg cccgggcagg taccattatt ttccattcaa taccatatgt ctgaaaaata 120
 ggcaagtaat gataaacatt aaatgaccca ttccctatgt ctgtctgaat attttacatg 180
 gattatctca ttacatcttc agaagaacat tatgtagtag atatttgtat tatcctcatt 240
 ttacagatgg agaaactgag acttagacaa gttaaataac ttgccaggg ttacaatatt 300
 actgagtaga aaaaccacat ttgaacccag gaagtgtggc tgaagaattt ttgtgattta 360
 cctgttagac tataattgtc tattttttct acagtggaga taattctggt gtcaaggggc 420
 taaagaattt tctcaagacc aaacaacaca ttttttggaa atacgcagta attgaccatg 480
 agacatgctg agcttagtac ctccggccgcg accacgctaa gggcgaattc cagcacactg 540
 gcggccgtta ctagtggatc cgagctcggt accaagcttg gcgtaatcat ggcatagct 600
 gtttctctgt tgaaattgtt atccgctcac aattccacac aacatacgag ccggaagcat 660
 aaagtgtaaa gcctgggggtg cctaattgagt gagctaactc acattaattg cgttgcgctc 720
 actgncgct ttccagtcgg gaaacctgtc gtgccagctg cattaatgaa tcggncaacg 780
 cgccggggag aggcngnttg cgtattgggc gctct 815

<210> 239
 <211> 483
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(483)
 <223> n = A,T,C or G

<400> 239
 actatgacct gattacgcca agcttggtag cgagctcgga tccactagta acggccgcca 60
 gtgtgctgga attcgccctt agcgtggtag cggccgagg actttttttt tttttttttt 120
 ttttttttta gcgagcaagt atggnattatt acggacaaat ggtagaaaaa tgttactaat 180
 atccatagat aagtttcctta agtcatgtag agagactggt attaaaagt ttgctgcattt 240
 ttctattgaa tcaagaacta gctaccagtt acagtgcctt ctaaacacac agtttagcttt 300
 gctttatcaa taaccaaaata ataaactagg toccaatggg ttgtgccaca tntagattgt 360
 tcagggtgatc aggaactctt ttatttgggt gcttttagctt ttagttcttg gttatatctc 420
 caaatacgaa aaagctgaga ggctcctact gccccacaa agaaattaac agcaaacaga 480
 ctt 483

<210> 240
 <211> 815
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(815)
 <223> n = A,T,C or G

<400> 240
 gggcctntna gctgctcgac ggccgccatg tgatggatat ctgcagaatt cgccctttcg 60
 agcggccgcc cgggcaggta caaccatcca gcaggccca gaacagtttt cttctgggct 120
 ccaattatga aatgggggtt ggtgtgtgct ggattggctg atatggccag acctgcagaa 180

aaacttagca	cagctcaatc	tgctgttttg	atggctacag	ggtttatttg	gtcaagatac	240
tcacttgtaa	ttattccaaa	aaattggagt	ctgtttgctg	ttaatttctt	tgtgggggca	300
gtaggagcct	ctcagctttt	tcgtatttgg	agatataacc	aagaactaaa	agctaaagca	360
cacaaataaa	agagttcctg	atcacctgaa	caatctagat	gtggacaaaa	ccattgggac	420
ctagtttatt	atttggttat	tgataaagca	aagctaactg	tgtgtttaga	aggcactgta	480
actggtagct	agttcttgat	tcaatagaaa	aatgcagcaa	acttttaata	acagtctctc	540
tacatgactt	aaggaaactta	tctatggata	ttagtaacat	ttttctacca	ttgtccgta	600
ataaaccata	cttgctcgc	aaaaaaaaa	aannnnnaa	aaaaaaagta	cctcggccgc	660
gaccacgcta	agggcggaatt	ccagcacact	ggcgcccggt	actagtggat	ccgagctcgg	720
taccaagctt	ggcgtaatca	tgggtcatag	ctggttcctg	tgtgaaatgg	tatccgntca	780
caattncaca	caacatacga	accggaagcc	ttaag			815

<210> 241
<211> 486
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(486)
<223> n = A,T,C or G

agctatgacc	atgattacgc	caagcttggt	accgagctcg	gatccactag	taacggccgc	60
cagtgtgctg	gaattcgccc	ttagcgcccg	cccgggcagg	tacttcccac	cactggaaat	120
gttagcataa	aagaacttgg	agaggaaaaa	agtattaaca	aaactgcagt	ctgcactctt	180
taaacctggt	taaggctctt	catectggtt	agcaaaaagg	gtgaatgtaa	tgtgatggaa	240
tttaaaaagt	ttatgagacc	aggcacagt	gctcacgact	gtaattccag	cagtttagga	300
agccgaagt	tgcagatcac	ctgaggtccg	gagaccagcc	tggccaacat	ggtgaaaccc	360
tgtctctact	agaaatacaa	aaattagcca	ggtgtggtgg	cgggcgcctg	taatcccaac	420
tactcaggag	gctgaggcta	gagaatcact	tgaaccacag	angcggaggt	tgcggtgagt	480
cganat						486

<210> 242
<211> 481
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(481)
<223> n = A,T,C or G

anttgacctg	attacgccaa	gcttggtacc	gagctcggat	ccctagtaac	ggccgccagt	60
gtgctggaat	tcgcccttcg	agcggccgcc	cgggcaggta	catcagtgtt	cattttatta	120
tttcttacac	tgtcttcctg	acttacacat	aatattttgc	tagttttaaa	acataagatg	180
tgataataat	ctaaacagac	caaaggaaat	aatgaatat	gattaaaaaa	agacagagaa	240
taagccctgt	ctgatggaaa	gcataacaaa	gcaggtagaa	caactgtcag	gaatgcttga	300
tccaataaag	ctagggttgg	gatccacaac	acttcagcat	tttaatgtga	ttttgatgt	360
tngtttttg	caatggtgat	tctcagttgc	ctccctcctg	tgtctttaca	agctgaaatc	420
aagtgaagct	acttctgact	ttttctaaaa	cttaaaccca	acatgaaggt	ctgcgtattc	480
t						481

<210> 243
<211> 824
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(824)

<223> n = A,T,C or G

<400> 243

cnannngggcc	tntnnagcat	gctcgacggc	cgccatgtga	tggatatctg	cagaattcgc	60
ccttagcgtg	gtcgcgccg	aggtagacata	tacttttagat	aaacattttt	agaataactt	120
tattataact	cgataagcaa	aataatccaa	acctttatac	atttctacaa	ggatagtcac	180
atatgtcaat	ttttcggttt	cctctcgtgc	ctattttgtc	tcctgagccg	gcccctttcc	240
agctgacacg	tgtgtccgt	gttctccac	aatagtgtga	cctggcctga	gtccatgccg	300
ccgtgagcct	cctttctgtg	cttacaacag	cagcctgcct	gatgtcagtt	atggactatt	360
ctttctttca	gcctcatttc	agggctcctc	gcctcttaga	gctgctgctg	tagcttagct	420
agagaccgcg	tgtgttgca	tcattggaaaa	gtgccacata	cgtgcacatg	tgaaagaata	480
cgcagaccct	catgttgggt	ttaagtttta	gaaaaagtca	gaagtagctt	cacttgattt	540
cagcttgtaa	agacacagga	gggaggcaac	tgagaatcac	cattgcaaaa	agcaaacatc	600
aaaaatcaca	ttaaaatgct	gaagtgttgt	ggatcacaaa	cctagcttta	ttggatcaag	660
cattcctgac	agttgttcta	cctgcttttg	tatgctttc	catcagacag	ggcttattct	720
ctgtcttttt	taatcatatt	catttatttc	ctttgggtctg	tttagattat	tatcacatct	780
tatgttttaa	aactagcaaa	atattatgtg	taagtcatga	agnt		824

<210> 244

<211> 483

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(483)

<223> n = A,T,C or G

<400> 244

actatgacct	gattacgcca	agcttggtac	cgagctcgga	tccactagta	acggcccgcc	60
agtgtgctgg	aattcgccct	ttcgagcggc	cgcccgggca	ggtagcgggg	ggcaggggtg	120
ttaatcgctg	ccaagcggga	cttactgcaa	gctatcaaat	ctgaggtctt	atthtgttga	180
gtcgaaagtg	aaattttcct	ttggccaacg	tgacagggct	ttgtttgggtg	gtaaaaaggg	240
ttactagaca	ccctcatttc	cactgccact	ggaggggcga	tttctcagct	cttgcctctc	300
aaacctgctg	aaaggaattc	ctagatctaa	acaccagcat	ttgacattgt	gcagcaanaa	360
aatgggtatg	ganaagccca	gtccgctgct	tgtangggcg	gagtttgtga	ggcaatatta	420
tactttgctg	aataaagctc	cgaatatatt	acacaggttt	tatggcagga	attcttccta	480
tgt						483

<210> 245

<211> 822

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(822)

<223> n = A,T,C or G

<400> 245

ttggggccent	nnagcatgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtggtc	gcgccgagg	tacttccct	cgaaacataa	tcggttttgc	aattaagatt	120
ctctgaactg	gttcagagtc	atcaaaaacc	acaaaaccaa	aatttggaag	ctttcccca	180
acacccttgg	tattgatgcg	aagttccaca	acgtttccaa	aactcatgaa	gaattccttt	240
agctcatttt	catcaatatc	atgtggcaag	ttaccaacaa	aaagttgatg	actatctgga	300
tagcgaatta	ttctacggtt	gtcagagtca	ttctgttcca	tatctcctct	gcctgggtctt	360
ggtcctctag	gaggaaaacc	aggtcgttct	ctaggctcgtt	gttcacgcac	acgaggtggc	420
tgagattgaa	cttctgggtt	agcttcgact	cttggctttg	gtggttcttg	tggcagagaa	480
acaggttctg	ccggaggagg	agtagtagat	ttctcctcta	gttcttctaa	gttcttctcc	540
tccacttggtg	gtttcagctc	ttcagtcctt	gtttcagatt	ctggctcagg	ttcaggttca	600
tgagaggatt	cttccaaagg	ctcctctatg	ccattagtca	caggggtgagc	ttcatagtaa	660
ccactgttag	cattttcttg	cacaggttca	ggagatgggt	gnctttcttc	ttgggtcctct	720

tctacttcat cttctgattc ttcatacaag ttcangctca gaatcaccaa acacttnatc 780
 ttcataacga aacatatcat tgtgaacata aaattttattt gg 822

<210> 246
 <211> 482
 <212> DNA
 <213> Homo Sapien

<400> 246
 actatgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60
 gtgtgctgga attcgccctt agcgtggtcg cggccgaggt actttttttt tttttttttt 120
 aaccaactca atattgtgtt gatgatagtg aattgataaa acccgaagct tttccctgta 180
 aatcttacat ctttgccttt aaagaatggg ttacaacat cactagatca cagtagtgcc 240
 taatgaaggt tgagaaccgt aggagaggct ctcatgctgt aaataatgtt gcaggctaatt 300
 aacctttcat cacttccttt gtgcgcttcc tgccttaagt gacaagtagc aacatggctt 360
 ggggtccctg tgcagcatca gcttatgctg ccacaagtca gtttgacccc taggtgcccc 420
 ggagctagta tccttagatc tttctatcgc taacttaatt ctcttcgta tttatctgac 480
 cc 482

<210> 247
 <211> 816
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(816)
 <223> n = A,T,C or G

<400> 247
 gggccttnga gctgctcgan cggccgccat gtgatggata tctgcagaat tcgccctttc 60
 gagcggcgc cgggagcagg actttaattt tgcttggtca aatgatctac acttacattt 120
 tgcaaatctt ttttttaaat ttttttaatt ttatatttt tttccagcca actcaaggcc 180
 aaaaaaatt tcttaataata gttattatgc gaggggaggg gaagcaagg agcacaggta 240
 gtccacagaa taagacacaa gaaacctcaa gctgtgaggt caatttgtaa ttaaaagaat 300
 actaagatta gatgaacaca aactcagaa atactctagg agggctgaaa aagaaggaaac 360
 agatgttaac aaaacaaatt aaggctgctg gggaacctga gtccatgtta agcttgggtt 420
 gactgtaaag aatttttttt tttttaatgc aagttagaca tggagttaga gggtcagata 480
 aataacgaag agaattaagt tagcgataga aagatctaag gatactagct cctgggcacc 540
 taggggtgcaa actgacttgt ggcagcataa gctgatgctg cacaggggac ccaagccatg 600
 ttgctacttg tcaacttaagg caggaagcgc acaaaggagg tgatgaaagg ttattagcct 660
 gcaacattat ttacagcatg agagcctctc ctacgggtct caaccttcat taggcactac 720
 tngatctag tgatggttgt acccattctt taaaggcaaa gatgtaagat ttacagggaa 780
 aagcttcggg ttttatcaat cctatcatca acacng 816

<210> 248
 <211> 482
 <212> DNA
 <213> Homo Sapien

<400> 248
 actatgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60
 gtgtgctgga attcgccctt tcgagcggcc gcccgggcag gtactctttg ggcatatag 120
 ccttctctgt aattatatct cgtttttgct tggcagtgac ctaccagta attgcatcgt 180
 gtattgccat gaaaggtaaa cacattgtga actgaactta ccaagcagat tctgtgagaa 240
 agcactggtt ggggctgaac actgttgaca catcattttt attggaagag tattaactgg 300
 tgctcttctt gaaacacacc aacctatatt cctctgctcc cccaaagctg tttctgatcc 360
 tgctgggagc aactaactag ttattatgca catctgctcc agaccagct ctttaacttc 420
 atggttttac agcttggttt ttctttttct tttcttttct ttttttttaa aaaagcacct 480
 tt 482

<210> 249

<211> 821
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(821)
 <223> n = A,T,C or G

<400> 249
 ggcctctnag ctgctcgacg gccgccatgt gatggatata tgcagaattc gcccttagcg 60
 tggctcgcggc cgaggtaact tatgaatttg gggtaggtaa agtttgattt ttatcttaaa 120
 catgttttct atgatgaaaa ggaacaaaaa tgtaaaaaat gaggatcttc cctctaagg 180
 ttccaagcg ttagaggaca tgcaattaaa tgttggtaca ccttgaacaa tgagcctctt 240
 gagttttagt gaaggcgaga ccggctccat taccaacaac tttggggtag aaagcacagc 300
 tctcctcttt taccagcac aaatgcaatc ctgattataa aactatttgt gtttctaaat 360
 acaaccaaaag gaaatcttag agaaacataa attagaaacc tcttttatta aggggaaaca 420
 acaaaaaaag gtgctttttt aaaaaaaaag aaaagaaaag aaaaagaaaa aacaagctgt 480
 aaaaccatga agttaagag ctgggtctgg agcagatgtg cataataact agttagtgtc 540
 tcccagcagg atcagaacaa gctttggggg agcagaggaa tatgggttgg tgtgttcag 600
 aagaggcacc agttaatact cttccaataa aaatgatgtg tcaacagtgt tcagcccaa 660
 ccagtgtctt ctcacagaat ctgcttggtg agttcagttc acaatgtgtt tacctttcat 720
 ggcaatacac gatgcaatta ctgggtaggt cactgccaag caaaaaccga agatntaatt 780
 tcccagaag gcattaatgc ccaaagagta cctgccccgg n 821

<210> 250
 <211> 481
 <212> DNA
 <213> Homo Sapien

<400> 250
 acttgacctg attacgcaa gcttggtacc gagctcgat ccactagtaa cggccgccag 60
 tgtgctggaa ttcgccctta gcgtggctgc ggccgaggta caacattgat gttttaatat 120
 agaataagt gcttgctaca cagtcaagta aatcaacata tccattacca cacacacttt 180
 tcttttctga ggagcggtaa gactacttta atttgcaat tattgattaa ttaaaaaaca 240
 cagttgtttt cagcatttcc tagttacagt agtgcataag aaattccatt ctaaaacaaag 300
 aagtaattaa tgaaataaca acacacctta acattttaca ttgatagggt acagtttaca 360
 aggtgtcttc acatacatta tttcatttga ttcttacaac aagcagaaaa aacagtggga 420
 aagatTTTTT ttttcaggct tacaatgagt attttcaggc caatgggcag ttaacacaag 480
 g 481

<210> 251
 <211> 803
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(803)
 <223> n = A,T,C or G

<400> 251
 gggccttnna gctgctcgn gccgccaggt gtgatggata tctgcagaat tcgccctttc 60
 gagcgccgc ccggcaggta cactaaatta gaatatTTTT aaagtatgta acattcccag 120
 tttcagccac aatttagcca agaataagat aaaaacttga ataagaagta agtagcataa 180
 atcagtattt aacctaaaa tacatatattg aaacagaaga tattatggtt tgctcagtaa 240
 ataattaaga gatggcattg tgtaagaagg agccctagac tgaaagtcaa gacatctgaa 300
 tttcaggctg gaaaactatc agtatgatct cagcctcagt tctcttgtct gtaaaatgga 360
 agaactggat taggcagttt gtaagattcc tcttaacttt cacagtcgat gacaagattg 420
 tctttttatc tgatatTTTg aagggatatat tgctttgaag taagtctcaa taaggcaata 480
 tatttttaggg catctttctt cttatctctg acagtgttct taaaattatt tgaatatcat 540
 aagagccttg gtgtctgtcc taattccttt ctcactcacc gatgctgaat acccagttga 600

```
atcaaaactgt caacctacca aaaacgatat tgtggcttat gggatttgct gtctcattct 660
tggtatattc ttgtgttaac tgcccatggc ctgaaaatac tcattgtaag cctgaaaaaa 720
aaaatctttc ccactgggtt ttctgcttgg tgtaagaatc aaatgaaata tggatgtgaa 780
agcccttgta actgtacctt tcn 803
```

```
<210> 252
<211> 500
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(500)
<223> n = A,T,C or G
```

```
<400> 252
tacnccaann ttgacctga ttacgccaaag cttgggtaccg agctcggatc cactagtaac 60
ggccgccagt gtgctggaat tcgcccttag cgtgggtcgc gccgaggtag agatgaaaag 120
aagtgtgtgt aatgacctac ctgcaccgat aataaagcaa atagaatgat tatatacatt 180
aagatcagct tgattaaaaa taaattttat atgcaggtaa attgatcatt aaaatgaacc 240
cagtttaact cttctcgtgt gttgttttaa ggtaggccac tgaaacgcag agataaaatc 300
anattgggaa aattaaaagc naagaaaaaa attacaaaac aagtgggtta agccatggat 360
tcttaaccaa accctggact aaatgtgcc aagtgttttg aaaatttcca ctgccagcna 420
tggntggtaa agtcantttg gcaaaaaaaa ggtggttnga aaaaaaactn acctttttaa 480
ttccacacctt ggaatctggcn 500
```

```
<210> 253
<211> 831
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(831)
<223> n = A,T,C or G
```

```
<400> 253
gnnnnnnnnn gnnnnnnnnn ntttnnantg ggcctctnna gcatgctcga cggccgccat 60
gtgatggata tctgcagaat tcgccctttc gaggcgccgc ccgggcagggt actatatttg 120
tgagcctagg gtaggggcac tgctgcaact tctgctttca tcccatgcct catcaatgag 180
gaaaggggaa aaagtgtata aaactgccac aattgtattt taattttgag gtatgatatt 240
ttcagatatt tcataatttc taacctctgt tctctcagta aacagaatgt ctgatcgatc 300
atgcagatac aatgttggtt tttgagaggt tagttttttt tctacactt ttttttgcca 360
actgacttaa caacattgct gtcagggtgga aatttcaagc acttttgcac atttagttca 420
gtgtttgttg agaatccatg gcttaaccca cttgttttgc tatttttttc tttgctttta 480
attttcccca tctgatttta tctctgcgtt tcagtggcct accttaaaac aacacacgag 540
aagagttaaa ctgggttcat tttaatgatc aatttacctg catataaaat ttatttttaa 600
tcaagctgat cttaatgtat ataattcatt tatttgcttt attatcggtg caggtaggtc 660
attaacacca cttcttttca tctgtacctc ggccgcgacc acgctaaggc cgaattccag 720
cacactggcg gcccggttact agtggatccg agctcggtag caagcttggc gtaatcatgg 780
gtcatagctg tttctgtgtg gaaattggtt tccgntcaca attcccacan g 831
```

```
<210> 254
<211> 514
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(514)
<223> n = A,T,C or G
```

<400> 254
cacttgacnt gatcgccaac ttggtaccga cntcgnntcc attattaccg gacacttgac 60
tgatacgcca ncttgggtacc gactcggacc actagtaacg gncgccagtg tgctggaatt 120
cgcccttgag cgcccgcccg ggcagggtacc tctaattgag gctaataaat ttaagctaatt 180
tatttatgct acctgtgctg tgggtggttc ctatcagcag ccaaataata cctcacagtt 240
gttttgctgt ttttgcttcc acaaaagagc tattaaccaa cttaaaaatg ttttttgatt 300
gaaggatgct taggggatga gaggatatca acaatataag cccatgccaa atccccattt 360
cttatcatta aaactgacct gacattaaag caatgcttaa ttttttacca taagagtga 420
attttgagat tataatttta aagtgtaaaa tttttacact taaattacac ttataatttt 480
aaagtgtata atatttacac agattaaaat aaaa 514

<210> 255
<211> 830
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(830)
<223> n = A,T,C or G

<400> 255
nnnnnnngn nnnnnnnant gggcctctnn agcntgctcg acggccgcca 60
tgtgatggat atctgcagaa ttcgccctta gcgtgggtgc ggccgaggta cttttttttt 120
ttttccagat gaagtcttgc tctgttgccc aggtcggagc gcagtggcac aatctcagct 180
cactgaaacc ttcgccccct gggctcaagc tagccagctt tttagtaaac atttagtcaa 240
caaatctgca attataacgg aggtttgatt tttgttgttt ttgtttgttt ttaagtcact 300
ctgtgtttgt aatatcaatt tacttttcaa gtttagaatg ttttgcttca ttgtttccca 360
tattttatatt taatctgtgt aaatattata cactttaaaa ttataagtgt aatttaagt 420
taaataatttt acactttaaa attataatct caaaatttca ctcttatggg aaaaaattaa 480
gcattgcttt aatgtcaggt cagttttaat gataagaaat ggggatttgg catgggctta 540
tattgttgat atcctctcat cccctaagca tccttcaatc aaaaaacatt ttaagtgtg 600
ttaatagctc ttttgtgaaa gcaaaaacag caaaacaact gtgagggtat atttggtgc 660
tgataggaaa ccaccacagc acaggtagca taaataatta gcttaattt attagcctgc 720
attagaggta cctgcccggg cnggccgtca agggcggaatt ccagcacact ggccggcgtt 780
ctagtggatc cgactcggtc cagcttgctg aatcatggtc atagctgttg 830

<210> 256
<211> 524
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(524)
<223> n = A,T,C or G

<400> 256
cnnnnnnnna ncntnanacn nnnnnntnng nnnnnnagnn nnnnnnnnnn nnnnnnnnan 60
actatgactg attacgcca cttgggtacc actcggatcc actagtaacg gccgccagtg 120
tgctggaatt cgcccttagc gtgggtcgcg cggagggtaca ttacttggtg ttaacattgt 180
tggcagtggt agcccctttt cagaaaagcaa ctgtctgtaa gtcagggtgt ccgttccaac 240
cttcagccag tgaagggtg gtaacaaatg gtaaacaaaga gaatgattgt ttaaacctat 300
ctgtggacac ttaatgcaac tgtttaaaaa tgataatcac gagttatgta gcaacgtgga 360
aatatatttta cagaacatta agtggagaaa gcaggacacg aaagtatatt tatactacag 420
ttataactca acagtttcatt tatatgctgn tcattttaaca gttcatttaa acagttcatt 480
ataactgttt aaaaatatat atgcttatag tcaaaagctg ttgg 524

<210> 257
<211> 814
<212> DNA
<213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(814)
 <223> n = A,T,C or G

<400> 257
 ntgggcctct agaagcatgc tcgagcggcc gccagtgtga tggatatctg cagaattcgc 60
 ccttgagcgg ccgcccgggc aggtactttt tttttttttt tttttttttt tttgatattt 120
 atttttaact ttatttttat tgntgacact attacagata gaatgaccac aaccatatta 180
 acaaaccaaa aacctgtgca cagaaacaag atgaagaaaa tatatcaaga tgttaaccac 240
 actcttttga tgggtgaaaac atgggtgagt ttctcttcta cattctctgta acttcaaagt 300
 ttctataatg aacacatttc atatataatg gaaatatatg tagtaaagggt ggactaccaa 360
 aacactagaa tgatgacctt tcaaggaaac cgaaacaaaa taaccataat cccacaacaa 420
 ccacacaact atttcttgct ttctatcttt cttoecatct ttgacattta tgcatactta 480
 tctaataac cctaataatc acagactagt gcacagatca agatgttaac agttaattgt 540
 tgttgggtgt tgggaatatg tgtgaatttt ctttactgaa tttccaaagt tttgatgag 600
 tatgtattat atttgtaatg gaaaatacat acataaaaatt tattacaaa acaccaaaga 660
 ttattttaaag aatttgagac aaaatatatta accaaattcc cacaatgaca acactatttt 720
 agttattttc cacatctttt catttaaaga ctttatgcac acatatttaa cactgntatc 780
 acaagcgtgt gcactgnaac aggattgagg aaan 814

<210> 258
 <211> 474
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(474)
 <223> n = A,T,C or G

<400> 258
 acagctatga cctgattacg ccaagcttgg taccgagctc ggatccacta gtaacggccg 60
 ccagtgtgct ggaattcgcc cttagcgtgg tcgcggncca ngtacattat ttggaggact 120
 taaaatctgn atgtggacat ggtcccaact tantgtccgt taactagtta tccaaattgt 180
 aanagctaca gaaagcccag ttgaggggta antgtgctg gntcacacag cctgcacctt 240
 gtcacctcgg caatgagcca gtgtggggca ctggggactt ctaacccttg gattgctctt 300
 tttagacctgt gcataccttc taattgnaaa atatatttca gaccgagagt acntgcccgg 360
 gcggccnctc aaaagggcga attctgcaaa tatccatcac atggcggccg ntngagcatg 420
 catctaggag ggcncaatc ccctatagn agtngtatta caattccact gcnc 474

<210> 259
 <211> 809
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(809)
 <223> n = A,T,C or G

<400> 259
 ntggggccnt agangcatgc tcgncggcgg ccattgtgatg gatattctgca gaattcgccc 60
 ttctgagcgg ccgcccgggc aggtactcac ggtctgaaat atattttaca attagaagggt 120
 atgcacaggt caaaaagagc aatccaaggg ttagaagtcc ccagtgcgcc acactggctc 180
 attgccgagg tgacaggggt caggctgtgt gagccaggca cacttaccct tcaactgggc 240
 ttctgtagct ttacaatttg gataactagt tagcggacag tagttgggac atgtcacata 300
 cagatttgag tcttccaata atgtacctcg gccgcgacca cgctaagggc gaattccagc 360
 acactggcgg ccgttactag tggatccgag ctccggtacca agcttggcgt aatcatgggt 420
 atagctgttt cctgtgtgaa attgttatcc gctcacaatt ccacacaaca tacgagccgg 480
 aagcataaag tgtaaaagcct ggggtgccta atgagtgagc taactcacat taattgcgtt 540

```

gegetcactg cccgctttcc agtcgggaaa cctgtcgtgc cagctgcatt aatgaatcgg      600
ccaacgcgcg gggagaggcg gtttgcgtat tgggcgcctc tccgcttcct cgctcactga      660
ctcgtcgcgc tcggtcgttc ggctgcggcg agcgggtatca gctactcaaa ggcggtaata      720
ccgttatnca cagaatcang ggatacgacg gaaagaacat gtgagcaaaa ngccacaaaa      780
ggccaggaac cgtaaaaagg ccgcgtttg                                     809

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<210> 260
<211> 713
<212> DNA
<213> Homo Sapien

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```

<220>
<221> misc_feature
<222> (1)...(713)
<223> n = A,T,C or G

```

```

<400> 260
ctcttttaaac gccagctcga ntccganntc tatecntgac aannnnngtn ccggnctgga      60
attcgncttt tcgagcggcc gcccgggcag gtacttgagt tcatgggcat ctctcccgcc      120
gcctctcagc ctatctgcac catgtctcac acgttcagtt gcagctctta ccgttttgaa      180
ggcgcacgtg ggcaagaagt cctgggcagc acaagaaagt caatcacgtt gagacagaga      240
gagcaggaga ggaagtgggc ccagtagaaa gtgggcgaga gacggttggg tgggaacgtg      300
gcacgagaga gagaattat gagattgaga gagagagaga gagagagaga gagagagaga      360
gaaagagana ganagaggga aaganaaaga gacagagaaa agaaactatt gttgggttaa      420
atgccagcgg aaagtccatg ggggtgaatg agtccggcaa tggncangga gttagcagct      480
tggcgtagtg tctttcactg ntttggtgtg cttgagaata gcattcnacn ccgactgtgg      540
ttccccanca gacttttagc ngttgccng ncttgaattg ccggaccaag gttaacatag      600
gcttttcggg tctnaatatt tttggggctn gaatanctcg aaccntttgg gctggggccat      660
ttaccgcgntn cnnctgtggg nnnacatttt tncgtgntaa tcccgccttt tng          713

```

```

<210> 261
<211> 722
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(722)
<223> n = A,T,C or G

```

```

<400> 261
acgcanttag gtaccgagct cggatcccta gtaacggcgg ccagtgtgct ggaattcgcc      60
cttagcgtgg tcggggcccg aggtactcct cagccatgcc gaaggctctc ttccgggact      120
cttcgatggc agacagcagg gcattgtcct tctcattctt caggaagccc tgcagctctt      180
aaattttaagg agttacagaa cggtcgatgc tgnccatcac tgcagctctt ccaaaccctc      240
ttatatgaga tgagctctgt cggaaaccagt gctcaagttt tcccacccc aaactgcctg      300
aattgaggga tgggggtggg gagaaggaca gagagaagag aaaaagagag aaagaagana      360
aaggaaaaga acaacccttc tgcaagtgtc gatgtgactg aagcactaaa gactcaaatt      420
aaacaatgaa gattgcaggg tccctttaa aaggggtgcac tgcagncccc ngagcacanc      480
natcccatte gnttgncccg ctncacanat tctagagaan tcnnccatca tgtttgaaan      540
gcncaaaant gatgggannt cccgnntacg cggggactta attctgcctt gggaaatcaa      600
ggaanacttt gnttggangc ggcanttnaa anntggcctt aagaangnng tngaatattg      660
ttggccaaac nantngaaa gntttccggc cgatnggtcc ctgattttta aggatttnaa      720
ng

```

```

<210> 262
<211> 705
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature

```

<222> (1)...(705)

<223> n = A,T,C or G

<400> 262

acgctttaaa	cnccagcttg	gtaccgagct	cggatcccta	gtaacggccg	ccagtgtgct	60
ggaattcgcc	cttgccgccc	gggcagggtac	ctgatatttt	gaacttttaa	ttgctatcaa	120
atttcagctc	tggttttatg	cattgttgta	atttctcagt	gaatcccagt	gcttctttcc	180
ttcttgaaaa	atgccatttc	gcccaggcgc	ggtggctcat	gcttgtaatc	ccagcacttt	240
ggtaggccga	ggtgggtgga	tcagctgagg	tctgtagtcc	aagaccagcc	tggctaaccat	300
gatgaaaccc	tgtctctacc	aaaaatacaa	aaaaaaacta	gccaggcatg	gtgttgatg	360
cctgtaatcc	cagctactca	ggaggctgag	acaggagaat	cgcttgaacc	tgggaggtgg	420
agggtgcagt	gagccaagat	cgcgccactg	cactncaacc	tgggcaacag	agtgaactc	480
catctcaaaa	naannaaaaa	ggaaaatgcc	atttcttggg	cccantgcca	atatgcacca	540
agaatgttng	taggaactac	tttggctctg	ctgcagaagt	tcttaatcta	gcattaaaaa	600
tccaacggtt	gatttgatct	cttaaaatgg	ttttcnant	ttgganctga	aattgagnat	660
aaattacctt	tgcnnntnaa	ttcaaaangt	tnaacctnnt	tnann		705

<210> 263

<211> 656

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(656)

<223> n = A,T,C or G

<400> 263

acncgcttgt	accgagctcg	gatccctagt	aacggccgcc	agtgtgctgg	aattcgccct	60
tagcgtggtc	gcggcccag	gtaccgcggg	ggagaacgcc	aggagctgt	gagagtgtgc	120
agtcgcgttc	ctgctgtccg	gacacttttt	tcctctactg	agactcatct	ggtagatccg	180
caggccagtc	ctcccagggg	ctgaagtgtg	gaaatatggg	ttttctaaga	agattaatct	240
atcgccgtag	accaatgac	tatgtagaat	cttctgagga	gtccagtgat	gagcaacctg	300
acgaagtgga	atcaccaact	caaagtcagg	attctacacc	tgctgaagag	agagaggatg	360
agggagcatc	tgcagctcaa	gggcaggagc	ctgaagctga	tagccaggaa	ctggttcagc	420
caaagactgg	gtgtgagctt	ggagatggtc	ctgataccaa	gagggnttgc	ctgcgaaatg	480
aagagcagat	gaaactgccc	gnagaaggcc	agacctgann	cgatagcagg	acagttcccc	540
gaaactggtg	tagcgcgaat	gtctgtgtca	gagtggcctg	ccaatcaagg	agtgaacctt	600
gggaataaag	atccagctta	aagannccct	ganggttagt	gtctngtgaa	ttncct	656

<210> 264

<211> 752

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(752)

<223> n = A,T,C or G

<400> 264

ggnttgaang	tatacgactc	nctanggcga	attgggccct	ctagatgcat	gctcgagcgg	60
cccgccagtg	tgatggatat	ctgcagaatt	cgcccttagc	gtggctcgcg	ccgaggtacc	120
tttgataatt	cctagacctc	tattttcatt	ctgtgtatta	atgtgaataa	cagatggata	180
ttttaaatatt	taaggcagat	ggtaaaacttt	cctataggct	ttgtgagact	tcgtcttata	240
ggctgaacac	cattcacaaa	atgtaataat	gcttcattcc	ttcagggttg	ggtaaagaac	300
ttgagcaact	ggattagcaa	agctgcaaag	aatgaaatgt	ggcctaagat	gtaattatgt	360
tctctgccct	tcttttgggc	cagggtagtt	ttgcacttga	cacaatggaa	aataggccat	420
aaagcctgaa	aataaaatgt	tctaaacccc	aatctcacag	cacttttagt	ggcttttcac	480
taggcatctt	taaagtattt	tcaacaaaat	actaatgaag	ctaccacttc	aaaagagctt	540
caaggaaaag	ctctgctttc	ttataaaatc	tttttgagac	agagtttccg	ctctgtcag	600
cacaggctgg	agtgcaatgg	ccgtgatctc	gactnaaccg	naaccttcgg	cctgctgggt	660

tcaagtgtatt ctctagnect caagcttctg agtaggttgg gattacaggg gcccggncaa 720
ccacacctgg gctaaatttt ggatttctan gn 752

<210> 265
<211> 747
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 265
gngntttcnc nnnngcgtct anagcatgct cgagcggccg ccagtgtgat ggatatctgc 60
agaattcgcc cttagcgtgg tcgcgccga ggtaccttg atnattccta gacctctatt 120
ttcattctgt gtattaatgt gaataacaga tggatattgt aatatttaag gcagatggta 180
aactttccta taggtcttgt gagactncnt cttataggct gaacaccatt nacnanntgt 240
antaatgctt nattccttca ggcngaggtn nanaacttga gcacctggat tagcagcagc 300
tgcaagaat gaaatgcngc ctaacatgta attatgnatc tctgnccttc ctttggggcca 360
gggtagtnat gcncctagaca cantggatga tangccatna agcctgannn tgnaatgatc 420
taaacccnaa tctnncagca ctttattagg ctantcacta ggcactctta agagtngggt 480
ccnnttaata ctagncaacc nccactcca aaanancctc aagganaagc tntgntntnt 540
tanaaaatct tttcggnaca cantttnacn cttggcgenc angctggant gcaatggccg 600
tgatctctac tcaccgaan cctcngactg ctgagttcaa gtgattgtct gnccttanct 660
ctccgggacc angnttnggg attancaagc ctcgcgggca annacaggtg nctaattgnt 720
tgcattngcn taaaatnagg acaccng 747

<210> 266
<211> 738
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(738)
<223> n = A,T,C or G

<400> 266
cgnnnttgaa ggnatcgact cactataggg cgaattgggc cctctagatg catgctcgag 60
cgcccgccag tgtgatggat atctgcagaa ttcgcccttt cgagcggccg cccgggagcag 120
tacagctgaa gtttgataac aaagaaatat atataagaca aaaatagaca agagttaaca 180
ataaaaaacac aactatctgt tgacataaca tatggaaact ttttgtcaga aagctacatc 240
ttcttaatct gattgtccaa atcattaaaa tatggatgat tcagtgccat ttgcccagaa 300
attcgtttgg ctggatcata gattaacatt ttcgagagca aatccaagcc attttcatcc 360
aagtttttga catgggatgc taggcttctg gtttccattt gggaaatgta ttcttatagt 420
cctgtaaaga ttccacttct ggccacactt cattattggg agtgcccaaa gctctgaaat 480
cctgaagagt tgatcaattc tgaatcccat ggaaaagtgg ttcttagtgc tagtcaacaa 540
atatngngc ctatactcca aaggtcactt ggagttgagt natggagctg accccagcat 600
acttttggaa aactggacca agtggttga ccacnttaa aaaatttaaa accggnngta 660
ttttaataaa ggtggaagaa accttttctt tttttattta aggaattcac ttagcnctta 720
ctaaattcat ggtggggg 738

<210> 267
<211> 731
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

<400> 267
gngnntttgn aagggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60
gcagaattcg ccttttcgag cggccgccc ggcaggtaca gctgaagttt gataacaaag 120
aaatatatat aagacaaaaa tagacaagag ttaacaataa aaacacaact atctgttgac 180
ataacatatg gaaacttttt gtcagaaaagc tacatcttct taatctgatt gtccaaatca 240
ttaaaaatag gatgattcag tgccattttg ccagaaaattc gtttggctgg atcatagatt 300
aacattttcg agagcaaatc caagccattt tcatccaagt ttttgacatg ggatgctagg 360
cttctggtt tccatttggg aaatgtattc ttatagtcct gtaaagattc cacttctggc 420
cacacttcat tattgggagt gccc aaagct ctgaaaatcc tgaagagttg atcaatttct 480
gaatccccat ggaaaagtgg tttcttagtt gctagttcag caaatatggt gcctatactc 540
caaatgtcaa ctggagttga gtaatgagct gacccagca atacttctgg agatctgtca 600
agtggttgca acaccattaa aaaatataaa agcagtagtt atattaaaat aatggtgaag 660
aaaacatatn cctatatatt tnaaggaatt tcactaagca ctactaaatt tcatgttggt 720
gggngngtt a 731

<210> 268

<211> 745

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(745)

<223> n = A,T,C or G

<400> 268
gnnnnntaa agnanacntc actatanngc gaattgggcc ctctagatgc atgctcgagc 60
ggcggccagt gtgatggata tctgcagaat tcgccctttg agcggccgcc cgggcaggta 120
cttcccacac aggtttgttg taaaaattaa gtgagctaata gtgtataaaa tacttcagtg 180
ctgaataaat gttggccttt attatatatt gttaaaaaac aacacaggct gggatgata 240
gctcacgcct ataactctag catttaggga ggccaaggca ggaggattgc ttgagtcag 300
gggtttgaga ccagcctggg caacatagtg agaccctatc tctacaaaat aaaataaatt 360
agttgggcat ggtggcagat gcctgtagtc ccagctactc aggaggctga ggtgggagga 420
ttgcttgagc ccaggaggta gaggttgagc tgagctgtga tcacaccact gcactccagc 480
gtcggtgacg gagtggagac ctatctcaaa caaacaacaa aaaaaaccca aaacaacaa 540
aaaaatccag taaagacaga gattcctaaa attctacaat tctaaaaaac agtagggctc 600
actgaatata agagaggcaa gcaaaaaatt actccaatat tttgagtttg ggtaacctgg 660
aatatgggtc atttattgag taaatagtta ctgagtccta actatgtgcc acacactggg 720
ttaacacttg gcactgtctc ttatg 745

<210> 269

<211> 730

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(730)

<223> n = A,T,C or G

<400> 269
gntnnnttt tnaanccggt cctnntgcat gctcgagcgg cccgccagtg tgatggatat 60
ctgcagaatt cgccctttga gcggccgccc gggcaggtac ttcccacaca gggttggtgt 120
aaaaattaag tgagctaata tgtataaaat acttcagtgc tgaataaatg ttggctttta 180
ttatatattg ttaaaaaaca acacaggctg ggtatgatag ctacgccta taatcctagc 240
atttagggag gccaaaggcag gaggttgct tgagtccagg ggtttgagac cagcctgggc 300
aacatagtga gaccctatct ctacaaaata aaataaatta gttgggcatg gtggcacatg 360
cctgtagtcc cagctactca ggaggctgag gtgggaggat tgcttgagcc caggaggtag 420
aggttgagcag gagctgtgat cacaccactg cactccagcg tcggtgacgg agtgagaacc 480
tatctcaaac aaacaacaa aaaaacccaa aacaaacaa aaaatccagt aaagacagag 540
attcctaaaa ttctacaatt ctaaaaacca gtagggtcta ctgaatataa gagaggcaag 600

caaaaaatta ctccaatatt ttgagtttgg gtaacctgga atatggtcat tattgagtna 660
atagttactg agtcctacta tgtgccaca ctgggtnaac acttgcactg tctcttatga 720
aatcttccan 730

<210> 270
<211> 713
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(713)
<223> n = A,T,C or G

<400> 270
aattgggccc tctagatgca tgctcgagcg gccgccagtg tgatggatat ctgcagaatt 60
cgccctttcg agcgcccgcc cgggcaggta caaaccaata gctcctattc tgggaaggttt 120
tctttttatt taaaaaaaaat tcaacaagg ttaaaagtca agcaagaagg gaagagagaa 180
actgggttct gagaaaaaaa tgtgccagta taaaataaac tcctaaatgc gtgcttgtca 240
tcctctagtt ttttttttaa gttgaatttc ttttccactg taacttaaga tttgagattg 300
aggtttgcgg tccagaacat accctcagca gatacagtga ctaactggaa agtgcagttg 360
ttcaaggtct gtcattgctca atcacctaaa gctataattt gnttgatata ttaagcatgt 420
agacctagtg cagcatggga gccactcagg aagtttatgc aattaataaa ctttcagcat 480
aatctactat gaagtatgca gaatttcacc ctcttctcca cacttaacat ttagtgtgat 540
atgtgaactc tcctttctta attggggaat gtagcattat atagaatgtt gntaaaggta 600
attttaatcc tttttgacat taaccttttt tttttttggn aaaccaagtg atctgccttt 660
cagcaactgg cttatttttg gtctttgaaa ctgngatttt tatttcattn gnc 713

<210> 271
<211> 702
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(702)
<223> n = A,T,C or G

<400> 271
gnctcgagcg gccgccagtg tgatggatat ctgcagaatt cgccctttcg agcgcccgcc 60
cgggcaggta caaaccaata gctcctattc tgggaaggttt tctttttatt taaaaaaaaat 120
tcaacaagg ttaaaagtca agcaagaagg gaagagagaa actgggttct gagaaaaaaa 180
tgtgccagta taaaataaac tcctaaatgc gtgcttgtca tcctctagtt ttttttttaa 240
gttgaatttc ttttccactg taacttaaga tttgagattg aggtttgcgg tccagaacat 300
accctcagca gatacagtga ctaactggaa agtgcagttg ttcaaggtct gtcattgctca 360
atcacccata agctataatt tgtttgatat attaagcatg tagacctagt gcagcatggg 420
agccactcag gaagtttatg caattaataa actttcagca taatttacta tgaagtatgc 480
agaatttcac cctcttctcc acacttaaca tttagttgta tatgtgaact ctcctttctt 540
aattggggaa tgtncattat atagaatgtt ggtaaaggta attttaatcc tttttgacat 600
taaccttttt ttttttttgg taaaccaagt gatctgnctt ttaacaactg gcttattttg 660
gtcctttgna actgggaatt ttatttcatt tgnnccctcg cc 702

<210> 272
<211> 736
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(736)
<223> n = A,T,C or G

```

<400> 272
gnnntttgan nnnnnnnnnn ntatagggcg aattggggccc tctagatgca tgctcgagcg      60
gccgccagtg tgatggatat ctgcagaatt cgccctttcg agcgggccgcc cgggcaggta      120
ctttttttta ttccctcagtt aaaacatgcc tgttattctt tttgtaatac ttaagcaatt      180
ttattttaaa gatatactac ttagttcatc cgtctccact tgtttttttt ttttgnnant      240
anngggttgg ttccnttaan nccacnggtt ttaaancat nntngtcnnn ggnaaattan      300
nnttantnat taaanntnnn tnnctngca aanntccagn taaaatttta gtgggggggg      360
ggggttantt acnggnaann aattaantnc nggnnaatan ttaannntt ggnaangnac      420
nntngnnnta annattattt nnttnanntt ttaataaann annaatttta ntttgnacn      480
ntggtnttta ntaannggaa annccaatta attggttggg tgnatttttc ccagnaaccn      540
ntcentgggc nggaacnnc ntangggnaa nttcnagnnn ntngngggcn gtncnnaggg      600
nnccaacnt nggccancn tggnggaann nnnngcnnna nnggttcccn ggggnaaatg      660
gtattcngtt cnaatccnnc aanttccaac ccggagnctt aangggtaan nccngggggg      720
cntanngagn gcctaa

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<210> 273

<211> 715

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(715)

<223> n = A,T,C or G

```

<400> 273
gngntttnac gannnnnnnn nnnnnctgct cgagcgggccg ccagtgtgat ggatatctgc      60
agaattcgcc ctttcgagcg gccgcccggg caggtacttt tttttattcc tcagttaaaa      120
catgcctggt attctttttg taatacttaa gcaattttat tttaaagata tactacttag      180
ttcatccgtc tccacttgtt tttttttttt gnnantannng ggttggttcc nttaanncna      240
cnggtnttaa anccannnnn gtcnnnggna aattannntt antcnntaaa nntnnnnnnc      300
ntggnaannn tccagntaaa atttnagtgg gggggggggg ttaattancg gnaannantt      360
aantnccgga naatanttta annnttggna angnacntn gnnntaagna ttatttntt      420
cannttttta atnantanna attttaattt gnaancntgg nntttanna nnggaaannc      480
caattaattg gttggttgn tttttcccag naaccnncn ntgggcngga acanccntaa      540
ggncaaatcn accaantgnc ggccgtacna aggggatcca acntnggcc ancctggng      600
naataatggc cnaantgggt nccnggggna aatggnatc cgttcaaatt ccnccanntc      660
cnacccgag ccttaagngg taaacctggg ggcctaangg ggggcctaac tcaat

```

<210> 274

<211> 746

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(746)

<223> n = A,T,C or G

```

<400> 274
gnnntnnan gnntacgact cactataggg cgaattgggc cctctagatg catgctcgag      60
cggccgccag tgtgatggat atctgcagaa ttgcgcccta gcgtgggtcg gcgccaggta      120
ccagggtggc tgacgcacat ccctaaaca ttctggatct ctactcatc gtgaaaggca      180
gacgctctaa gtctaaagtc tagggtagga gtttccattc tttggaaaac caaagatggg      240
tactcttctt aatgaaactg agaagaaggt atctacagaa aacactgaat ttaaacaat      300
tatgaccttg tttgttgaag ccatcaagga cccaagatat atcaaagaac aacatctctg      360
tattggccta caggttcaga gtgttttgag gtctgtttta gcactaatag gatttttagg      420
cagcatccag tcagaagaga tagttcacag actcagagtt ggaacagat taaaaaaaaa      480
aagatgtcaa catagaaaat gatgatagag tttagttaaa aaaattcaca cataaaatta      540
cagttaaaaa aattcacaca taaaatagag tgtttgcata gcaagacatt attgcccttc      600
agcctggcag aaaaacataa actcaggtgt atattttata ataaacattg nattgaatgc      660
taagaatgat acactggtga acatctnctg aatggttgcc ttcttgtaaa tcataccaat      720

```

tggttagaca attgaaattn ccagct

746

<210> 275

<211> 725

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(725)

<223> n = A,T,C or G

<400> 275

gnnnttaann	ccttccctnt	anatgcatgc	tcgagcggcc	gccagtgtga	tggatatctg	60
cagaattcgc	ccttagcgtg	gtcgcggccg	aggtaccagg	tgggctgacg	cacatcccct	120
aaacattctg	gatctcttac	tcacgtgaa	aggcagacgc	tctaagtcta	aagtctaggg	180
taggagtttc	cattcttttg	aaaaccaaag	atggttactc	ttcttaatga	aactgagaag	240
aaggtatcta	cagaaaacac	tgaatttaaa	caaattatga	ccttgtttgt	tgaagccatc	300
aaggacccaa	gatatatcaa	agaacaacat	ctctgtattg	gcctacaggt	tcagagtgtt	360
ttgaggtctg	tttaagcact	aataggattt	taggccagca	tccagtcaga	agagatagtt	420
cacagactca	gagttggaaa	cagatttaaaa	aaaaaaagat	gtcaacatag	aaaatgatga	480
tagagtttag	ttaaaaaaat	tcacacataa	aattacagtt	aaaaaaattc	acacataaaa	540
tagagtgttt	gcatagcaag	acattattgc	ccttcagcct	ggcagaaaaa	cataaactca	600
ggtgtatatt	ttataataaa	cattgnattg	aatgctaaga	atgatcactg	ttgaacatct	660
cctgaatggg	ttgccttctt	gtaaatcata	ccaatgggta	gacaattgaa	attccagctc	720
tttct						725

<210> 276

<211> 744

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(744)

<223> n = A,T,C or G

<400> 276

nnnnntgann	gtatacgact	cactataggg	cgaattgggc	cctctagatg	catgctcgag	60
cggccgccag	tgtgatggat	atctgcagaa	ttcgccctta	gcgtggctgc	ggccgaggta	120
cttctgctgt	ggtaactcaa	gtaacccctc	gtttaaacca	ggacagacct	atgctgacaa	180
ccatttttat	cactcttagt	ggtattttct	ttctttgaac	atgaatgcat	atttctgctc	240
tttaatggcc	tttggtattt	aagattacat	tcagctagtc	tccttattgc	atggtgtttt	300
attccagctc	caccagcact	cagaacaaca	gcaagtgtgt	gtaacagcgg	gcacaggcgc	360
tccagacgga	aggacctcac	tgacgcagtt	agctcaggta	gagcttattt	ctgtgttcaa	420
ttttcttgtc	atgagaagca	gtgaccctta	agaatttgta	tcctttgttt	cacttctttg	480
ttttaggaga	gaaacttcta	aagcattact	ctaaaagggt	atagagacag	agacgggcca	540
ttttcatcta	ccccttgtag	agtttaagttt	tattacagta	agttgtgagg	tgagacatga	600
tggctgcagg	cacatagtca	agatctaccc	ttctaaggaa	ataaaacggg	gaaaagtggg	660
tgaatgtcca	atatagaaaa	tttaatcacc	actttcccaa	aaaagaataa	atggaggact	720
ncattggaat	tatggaaatg	aaan				744

<210> 277

<211> 724

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(724)

<223> n = A,T,C or G

<400> 277
 gnnnnttncg antgggcccct ctatagtcgat gctcgagcgg ccgccagtgt gatggatattc 60
 tgcagaattc gcccttagcg tggtcgcggc cgaggtactt ctgctgtggt aactcaagta 120
 accctccggt taaaccagga cagacctatg ctgacaacca tttttatcac tcttagtggt 180
 attttctttc tttgaacatg aatgcatatt tctgctcttt aatggccttt ggtatttaag 240
 attacattca gctagtctcc ttattgcatg ttgttttatt ccagtcaccac cagcactcag 300
 aacaacagca agtgtgtgta acagcgggca caggcgctcc agacggaagg acctcactga 360
 cgcagtttagc tcaggtagag cttattttctg tgttcaattt tcttgtcatg agaagcagtg 420
 acccctaaga atttgtatcc ctttgttcac ttctttgttt taggagagaa acttctaaag 480
 cattactcta aaaggtgata gagacagaga cgggccattt tcatctaccc cttgcagagt 540
 taagttttat tacagtaagt tgtgaggtga gacatgatgg ctgcaggcac atagtcaaga 600
 tctacccttc taaggaaata aaacggggaa aagtgggtga atgtccaata tagaaaaattt 660
 aatcaccact ttccaaaaaa gaataaatgg aggactncaat tgtaattatg gaaatgaaat 720
 ttgg 724

<210> 278

<211> 748

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (748)

<223> n = A,T,C or G

<400> 278
 gnnnntgaaa gtatacgact cactataggg cgaattgggc cctctagatg catgctcgag 60
 cggcccgcca gtgtgatgga tatctgcaga attcgccctt tcgagcggcc gcccgggcag 120
 gtacagctgc ccaagggcgt tcgtaacggg aatgccgaag cgtgtgaaaa agggagcggg 180
 ggcggaagac ggggatgagc tcaggacaga gccagaggcc aagaagagta agacggccgc 240
 aaagaaaaat gacaaagagg cagcaggaga gggcccagcc ctgtatgagg acccccaga 300
 tcagaaaacc tcacccagtg gcaaacctgc cacactcaag atctgctctt ggaatgtgga 360
 tgggcttcga gcctggatta agaagaaagg attagattgg gtaaaggaag aagccccaga 420
 tatactgtgc cttcaagaga ccaaatgttc agagaacaaa ctaccagctg aacttcagga 480
 gctgcctgga ctctctcadc aatactggtc agctccttcg gacaaggaag ggtactagca 540
 actaaccatg gttaaaaggc cttagtcaga attacaaaaa caaaacattt agagtaatac 600
 ttatgaatac aagcataatt gggtcctcgc cttctacaaa taaccatctt gaaaatgata 660
 aaagcagggt tcaactgtgg tcttctctca ttgagaaggt gcagatacac atgggtgatc 720
 tactgattta ctttcttgaa agtnctcg 748

<210> 279

<211> 727

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (727)

<223> n = A,T,C or G

<400> 279
 gnnnnttcga ntgggcccctc tngngcatgc tcgagcggca cgccagtgtg atggatatct 60
 gcagaattcg cccttttcgag cggccgcccc ggccaggtaca gctgcccag ggcttcgta 120
 acgggaatgc cgaagcgtgt gaaaaaggga gcggtggcgg aagacgggga tgagctcagg 180
 acagagccag aggccaaaga gagtaagacg gccgcaaaaga aaaatgacaa agaggcagca 240
 ggagagggcc cagccctgta tgaggacccc ccagatcaga aaacctcacc cagtggcaaa 300
 cctgccacac tcaagatctg ctcttggaat gtggatgggc ttcgagcctg gattaagaag 360
 aaaggattag attgggtaaa ggaagaagcc ccagatatatc tgtgccttca agagacccaa 420
 tgttcagaga acaaaactacc agctgaactt caggagctgc ctggactctc tcatcaatac 480
 tggctcagtc cttcggacaa ggaagggtac tagcaactaa ccatgggtta aaggcttag 540
 tcagaattac aaaaacaaaa catttagagt aatacttatg aatcaagcat aattggttcc 600
 tcgccttcta caaataccat ctttgaaaaa gatnaaaagc aggtttcaac tgtggttctt 660

ctctcanttg aaaaggctcag atcccatggg tgatctactg atttaccttc tgaaaagtac 720
ttggccg 727

<210> 280
<211> 751
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 280
gnnnntgann gtatacgact cactataggg cgaattgggc cctctagatg catgctcgag 60
cgcccgccag tgtgatggat atctgcagaa ttccgacctta gcgtggctgc ggccgaggta 120
ctcatgtatt tttttttttt tccagatctc tttccccaag ttgctattgt aagagtattc 180
tgctgcgtgt ggatgcagtt atacacatta aagcagatct ggagtctgaa gtagctataa 240
agcagctata aaacagaaat acatgcatag ctgcagaaac catgatagggt agaggacttt 300
tcttttggtt ttgttttggt ttgttttggt ttgttttggt ttttacagag aagagatttt 360
tattacaaag aaaaaaattc cagtgaattg tgcagaaatg ctgggtttta caccatccta 420
aagaaaaact ttacaagggt gttttggagt agaaaaagg ttataaagggt ggaatcctaa 480
attgtaaaat taaccattga gtgtcaaatg tctaaaagca gaactcattt tgtgcaatga 540
acataaggaa agactactgn atagggtttt tttttctcct tttaaatgaa gaaaagcttt 600
gcttaagggt tgcatacttt tattggagta aatctgaatg atcctactcc tttggagtaa 660
aactagtgt taccagtttc caattggatt taacttctgg ggtggaattt ggaaaaaaa 720
agaannnnngg aaaaagaaaa cctaanttaa n 751

<210> 281
<211> 727
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(727)
<223> n = A,T,C or G

<400> 281
gnnnttcgan tgggacctct agatgcattc tcgagcgggc gccagtgtga tggatatctg 60
cagaattcgc ccttagcgtg gtcgcgccgc aggtactcat gtattttttt ttttttccag 120
atctctttcc ccaagttgct attgtaagag tattctgctg cgtgtggatg cagttataca 180
cattaaagca gatctggagt ctgaagtagc tataaagcag ctataaaaca gaaatacatg 240
catagctgca gaaaccatga taggtagagg acttttcttt tggttttggt ttgttttggt 300
ttgttttggt tttggtttta cagagaagag atttttatta caaagaaaaa aattccagtg 360
aattgtgcag aaatgctggt ttttacacca tcctaaagaa aaactttaca aggggtgttt 420
ggagtagaaa aaaggttata aagttggaat cttaaatgtt aaaattaacc attgagtgtc 480
aaagttctaa aagcagaact cattttgtgc aatgaacata aggaaagact actgnatagg 540
tttttttttt ctctttttta atgaagaaaa gctttgctta aggggtgcat acttttatg 600
gagtaaatct gaatgatcct actccttttg agtaaaacta gngcttccag tttccaattg 660
gatttaactt ctggntggaa tttgnaaaaa aaagaanaaa aggaaaaanga aaccctaant 720
naaatag 727

<210> 282
<211> 749
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 282
tnnaaagnaa gctctttact cactatnngg gccaattggg cctcttagat gcatgctcga 60
gcggcccgcca gtgtgatgga tatctgcaga attctncctt cgagcgccg cccgggcagg 120
tacttttttt tttttttttt tttttttttt ttttttnaaac tactaggatt tactgtagga 180
taaaagctnt acatggccct gcntacaaac tttctgcata cttctgcaaa tttttatgcn 240
ttactnaatc cattaaaaat caccttggaa naaactgcaa acncantana aactaaatga 300
natagtcaca gagaacanca aaaatagtaa ttnaagtctc catacaacat caagtgtgtn 360
cagtctattt tnggtctctt ggggtctctt taaaattgaa ttgagtttgn atatgcatat 420
gtatgtagga gtggaggatg gaattaatta tcccaaacat cctacantca ctctctaat 480
atttcttng ttaacatgca aatctgttct cttcattacg gngatactgc atttacatta 540
caacacantt agagatcatt aactttctcc tttataatca gccattttca caggcctttg 600
atatacaagc acctataata tattcttact catctcacac tttcatttac caaagtgtca 660
aaacaacatt tttacatcat tgatatttgg ttnantttct gcaantggc tggtanaaaa 720
tgattacttc tnttaaatca ccttttanc 749

<210> 283

<211> 730

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(730)

<223> n = A,T,C or G

<400> 283
gtctntgaan cngncctct ngatgcatgc tcgagcgcc gccagtgtga tggatatctg 60
cagaattcgc ccttcgagcg gccgcccggg caggctacttt tttttttttt tttttttttt 120
tttttttttc aaactactag gatttactgt aggataaaaag cntacatgg cctgcatac 180
aaactttntg catacttntg caaattttta tgcattactc aatccattaa aaatcacctt 240
ggaanaaaact gcaaacncaa tagaaactaa atganatagt cacagagaac aacaaaaata 300
gtaatttaag ttcccataca acatcaagtg tgttcagtct atttttggtt cttcgggttc 360
tcttttaaat tgaattgagt ttgtatatgc atatgtatgt aggantggag gatggaatta 420
attatcccaa acatcctaca ctcactctc taatatttct tttgttaaca tgcaaatctg 480
ttctcttcat tacgnggata ctgcatttac attacaacac aattagagat cattaacttt 540
ctcctttata atcagccatt ttcacaggcc tttgatatac aagcacctat aatataattct 600
tactcatctt acactttcat ttaccaaagt gtcaaaaaca acatttttac atcattggat 660
atttggttta gtttctgcaa nctggctttt anaaaaatga ttacttctct taaattacct 720
tttaccctca 730

<210> 284

<211> 739

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(739)

<223> n = A,T,C or G

<400> 284
gnmntnaaag tatacgactc actatagggc gaattgggcc ctctagatgc atgctcgagc 60
ggccgccagt gtgatggata tctgcagaat tcgcccttag cgtggctcgc gccgaggtac 120
aacataaagc aacagagagg tcttcatgtt tgggaagtgg ctgggcagga tgccaaaccc 180
caaatgactt attgagcaat ttctaaacca aacagagagg taggaaaaga ggatgggggt 240
caggggtgga ggctgtggaa aggggagagc gagggctgaa gagaatggca gccatacagg 300
tgttttggtt ttatttccac atctgaggac tgagagtctg atttgcctgc tgtccatttc 360
cgccactcat tgactgtcca tagttcatca tgccattggc tccatagaag ttcattcccag 420
ccatctgctg ggtcatctga gtaagggtcc attgcagctg ctgagctggc tggaccccat 480
acacagtctg gggcatagct gccatgcctg ccatgtagcc agcctgctgg gtggatcatca 540
ttccattcgg cacacccatc attgatgcct gcatgccacc catatagcct gcaggcatgg 600

ccatgggggc aaccatccca gaactnctgc tgagcaacca tgcctactgg tgggaagcatc 660
atgcttccca ttatgctgtt angangtgta cccnngggaa actggggtag ctgtgggata 720
tccatctgan ccggaccat 739

<210> 285

<211> 721

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(721)

<223> n = A,T,C or G

<400> 285

gnnnnttcgan tggggccctct ngatgcatgc tcgagcggcc gccagtgtga tggatatctg 60
cagaattcgc ccttagcgtg gtcgcggcac gaggtacaac ataaagcaac agagaggtct 120
tcatgtttgg gaagtggctg ggcaggatgc caaaccccaa atgacttatt gagcaatttc 180
taaaccaaac agagaggtag gaaaagagga tgggggtcag ggggtggaggc tgtggaaagg 240
ggagagcggag ggctgaagag aatggcagcc atacagggtg tttgttttta tttccacatc 300
tgaggactga gagtctgatt tgctgcctgt ccatttcgc cactcattga ctgtccatag 360
ttcatcatgc cattggctcc atagaagttc atcccagcca tctgctgggt catctgagta 420
aggttccatt gcagctgctg agctggctgg accccataca cagtctgggg catagctgcc 480
atgcttgcca tgtagccagc ctgctgggtg gtcattcatt cattcggcac acccatcatt 540
gatgcctgca tgccaccat atagcctgca ngcatggcca tgggggcaac catcccagaa 600
ctcctggctg agcaaccatg cctactgggt gangcatcat gcttcccatt atgctgtag 660
gangtgtagc ccgggggaanc tggggtagct gtgggatatc catttaaccg gagccatgaa 720
c 721

<210> 286

<211> 757

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(757)

<223> n = A,T,C or G

<400> 286

gnnnnttaaa gnntacgact cactataggg cgaattgggc cctctagatg catgctcgag 60
cggcccgcga gtgtgatgga tatctgcaga attcgccctt tcgagcggcc gcccgggcag 120
gacgcggggg ttgcaccatg gcgtccatgg ggaccctcgc ctccgatgaa tatgggcgcc 180
ctttcctcat catcaaggat caggaccgca agtcccgctt tatgggactt gagggccctca 240
agtctcatat aatggcagca aaggctgtag caaatacaat gagaacatca cttggaccaa 300
atgggcttga taagatgatg gtggataagg atggggatgt gactgtaact aatgatgggg 360
ccaccatctt aagcatgatg gatgttgatc atcagattgc caagctgatg gtggaactgt 420
ccaagtctca ggatgatgaa attggagatg gaaccacagg agtggttgtc ctggctgggtg 480
ccttgtaga agaagcggag caattgctag accgaggcat tcaccaatc agaatagcc 540
gatggctatg agcaggctgc tcgcgttgct attgaacacc tggacaagat cagcgatagc 600
gtccttggtt acataaagga caccgaaccc ctgattcaga cagcaaaaaa ccacgctggg 660
cttncaaaag tgggtcaacag ttgtcaccga cagatggctt gaaaattgct gtgaaatgcc 720
cgtccttact gtaaccagat atngaaccgg aaaagac 757

<210> 287

<211> 726

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(726)

<223> n = A,T,C or G

<400> 287

gnnnnactga	tttctggctc	gaagttgnat	ntgcggncgc	cagtgtgatg	gatatctgca	60
gaattcgccc	tttcgagcgg	ccgcccgggc	aggacgcggg	ggttgaccca	tggcgtccat	120
ggggaccctc	gccttcgatg	aatatgggcg	ccctttcctc	atcatcaagg	atcaggaccg	180
caagtcccg	cttatgggac	ttgaggccct	caagtctcat	ataatggcag	caaaggctgt	240
agcaaataca	atgagaacat	cacttgacc	aaatgggctt	gataagatga	tggaggataa	300
ggatggggat	gtgactgtaa	ctaagtatgg	ggccaccatc	ttaagcatga	tggatgttga	360
tcatacagatt	gccaaagctga	tggaggaaact	gtccaagtct	caggatgatg	aaattggaga	420
tggaaaccaca	ggagtgggtg	tcctggctgg	tgccttggtt	gaagaagcgg	agcaattgct	480
agaccgaggg	attcacccaa	tcagaatagc	ccgatggcta	tgagcaggct	gctcgcgttg	540
ctattgaaca	cctggacaag	atcagcgata	gcgtccttgn	tgacataaag	gacaccgaac	600
ccctgattca	gacagcaaaa	accacgctgg	gctccaaaag	tggatcaacag	ttgtcaccga	660
cagatggctg	aaaatgctgt	gaatgccgtc	ctnctgtanc	agatatngaa	ccggaaaaga	720
ccttga						726

<210> 288

<211> 743

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(743)

<223> n = A,T,C or G

<400> 288

gnnntganng	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggccgccagt	gtgatggata	tctgcagaat	tcgcccttcg	gccgcccggg	caggtacctt	120
ttacctaaaa	ttctagccac	tttaatttgg	agagtttcca	gagcaaaggg	cacagatccc	180
aggcataaca	acgctttg	tatacagcaa	ccaatatctt	gtcaacccaa	gaaagtccct	240
ccattgatac	ctagtagaaa	tagcccagtt	tttaaagtcc	tcaaaactgt	aacaaattac	300
ttgtttttta	aatttaactt	aaattaatac	aatcagattt	ttgtgttatt	tgggtattag	360
agtatgttaa	agcacatata	tcccagagac	atagagtttc	cgtttcaaaa	agtcatgcat	420
tcattgtgtc	taatgacaat	cctatcctga	cccgtatgt	gacttgtatc	tctaaaccat	480
aggctttcct	gaattttatc	tgttaattta	accctgattt	ctcagcagca	gcttctcttt	540
gtaaatagac	ttgcctcttc	tgtgtctgac	ctctgctcct	cataatcaga	ttaactcaga	600
taaagctgct	tcagggaaga	ggtcaaaaacc	gttgccaaaa	atagtagttg	ccctacttca	660
gtctattttc	aacagagtag	cccaggagat	ctgtcacacc	aaagtccaat	cagccctact	720
ggtagcactc	tgntcacaag	ccn				743

<210> 289

<211> 726

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(726)

<223> n = A,T,C or G

<400> 289

gnnnnnactc	gcagtcgctc	tagatgcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttcggcc	gcccgggcag	gtacctttta	cctaaaaattc	tagccacttt	120
aatttggaga	gtttccagag	caaagggcac	agatcccagg	cataacaacg	ctttgcgtat	180
acagcaacca	atatcttgct	aacccaagaa	agttcctcca	ttgataccta	gtagaaatag	240
cccagttttt	aaagtcctca	aaactgtaac	aaattacttg	tttttaaaat	ttaacttaaa	300
ttaatacaat	cagatttttg	tgttatttgg	gtattagagt	atgttaaagc	acatatatcc	360
cagagacata	gagtttccgt	ttcaaaaagt	catgcattca	tgtgtgctaa	tgacaatcct	420
atcctgacct	gctatgtgac	ttgtatctct	aaaccatagg	ctttcctgaa	ttttatctgt	480
taatttaacc	ctgattttct	agcagcagct	tctctttgta	aatagacttg	cctcttctgt	540

gtctgacctc tgctcctcat aatcagatta actcagataa agctgcttca gggaagaggt 600
caaaaccgtt gccaaaaata gtagttgccc tacttcagtc tattttcaac agagtagcca 660
ggagatctgt tcacaccaa gtccaatcag ccctactggt agcactctgc tcacaagcct 720
ncagtg 726

<210> 290
<211> 740
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 290
gnnnnngaaag tatacgactc actatagggc gaattgggccc ctctagatgc atgctcgagc 60
ggcccgccagt gtgatggata tctgcagaat tcgccccttag cgtggtcgog gccgaggtac 120
ccagatgtct ttctcgggtca ccttcccagag accatttaag acctccctag ctgctcgctc 180
tcagacctca actgcccctt ccatgtagcc gctccacttt gtggcagctc ctgtgcccgc 240
aaagaaaatc ctgcccacgg gttgacgaat cacccttcca tattgagtca tgatcccagg 300
aggggaagtag gccgtgtagc agccccaga gtacctgccc gggcggccgc tcgaaagggc 360
gaattccagc acactggcgg ccgttactag tggatccgag ctcggtacca agcttggcgt 420
aatcatggtc atagctgttt cctgtgtgaa attgttatcc gctcacaatt ccacacaaca 480
tacgagccgg aagcataaag tgtaaaagcct ggggtgccta atgagtgagc taactcacat 540
taattgcggt gcgctcactg cccgctttcc agtcgggaaa cctgtcgtgc cagctgcatt 600
aatgaatcgg ccaacgcgcc ggggagaggg ggnttgcgta ttgggcgctc ttncgctttc 660
tngctcactg actcgctgcg ctcggtcggt cggtgcggc nacgggtatc agctcattaa 720
angcggtaat acggtatccn 740

<210> 291
<211> 724
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(724)
<223> n = A,T,C or G

<400> 291
gnnnnnnncna ntggggccctc tngngcatgc tcgagcggcc gccagtggtga tggatatctg 60
cagaattcgc ccttagcgtg gtgcgggccg aggtacccag atgtctttct cggtcacctt 120
cccagagacca tttaagacct ccctagctgc tcgttctcca gcctcaactg ccccttccat 180
gtagccgctc cactttgtgg cagtctctgt gcccgcaaag aaaatcctgc ccacgggttg 240
acgaatcacc ctcccatatt gagtcatgat cccaggaggg aagtaggccc tgtagcagcc 300
cccagagtac ctgcccgggc ggccgctcga aagggcgaat tccagcacac tggcggccgt 360
tactagtggg tccgagctcg gtaccaagct tggcgtaatc atggtcatag ctgtttcctg 420
tgtgaaattg ttatccgctc acaattccac acaacatacg agccggaagc ataaagtgtg 480
aagcctgggg tgcctaataa gtgagctaac tcacattaat tgcgttgccg tcaactgccc 540
ctttccagtc gggaaacctg tcgtgccagc tgcattaatg aatcgggcaa cgcgcgggga 600
gagcggttt gcgtattggg cgctcttccg cttcctcgt cactgactcg ctgcgcttng 660
nccgtccggt tgcggcagcg gtataactna ctcaaaggcg gtaataccgg tatncacaga 720
atca 724

<210> 292
<211> 740
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature

<222> (1)...(740)

<223> n = A,T,C or G

<400> 292

gnnnnnngang	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggccccgccag	tgtgatggat	atctgcagaa	ttcgccctta	gcgtgggtcg	ggccgaggta	120
cagaaagaat	caaaagaacat	atatatatat	taagtttcat	tccaacctac	aaagagcctg	180
cacttaaaag	tcttaaagggt	ttcctgaatc	atggaaatctc	aacttacctg	ccaattaatc	240
cagttctctc	tttttaaagt	cagactccaa	ccttaaacag	aaggcatatt	ctagctgact	300
tctaagtgtg	tccaaagcat	acctcagaga	gccaaagtgtg	ctgtgttcaa	tacctattct	360
ttctatagaa	tctcaaaagt	ggcagtatga	tgaaaagaaa	agctactttt	tctcctaaaa	420
atacccccct	tcacatcatg	tgtgtgtgtc	tttttgcac	acaaagaata	gacattctaa	480
atgttccctt	ccacacagaa	agacataaga	gagaatgtga	gtatgagtga	gagtgtgtag	540
gtaagttgag	ggatagtttg	ctatccaaaa	tgaatcattt	tgaagatgac	tttgtaaaga	600
agtaatatag	ttaaaaatct	caagacatga	gattgangan	ggcagggaaa	taaaggacct	660
angaatggaa	aagagttaca	gcccattgtg	atacatcac	aaacctacca	ggttatttct	720
gngaattctc	acacaggttg					740

<210> 293

<211> 723

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(723)

<223> n = A,T,C or G

<400> 293

gnnnnnnnncn	annggccctc	tagatgcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttagcgt	ggtcgcgggc	gaggtacaga	aagaatcaaa	gaacatatat	120
atatattaag	tttcattcca	acctacaaag	agcctgcact	taaaagtctt	aaaggtttcc	180
tgaatcatgg	aatctcaact	tacctgccaa	ttaatccagt	tctctctttt	taaatgcaga	240
ctccaacctt	aaacagaagg	catattctag	ctgacttcta	agtgtgtcca	aagcatacct	300
cagagagcca	agtggctctg	gttcaatacc	tattctttct	atagaatctc	aaaagtggca	360
gtatgatgaa	aagaaaagct	actttttctc	ctaaaaatac	cccccttcat	catcagtgtg	420
ttgtcatttt	tgcacacaaa	agaatagaca	ttctaaatgt	tcccttccac	acagaaagac	480
ataagagaga	atgtgagtat	gagtgcagag	gtgtaggtaa	gttgagggat	agtttgctat	540
ccaaaatgaa	tcattttgaa	gatgactttg	taaaagaagta	atatagttaa	aaatctcaag	600
agcatgagat	tgangaaggc	agggaaaata	angcctagga	atggaaaaga	gttaacagcc	660
catgtgaata	catagcacia	acctaccagg	ttatttctgg	gaatctnacc	agtttgctgg	720
aaa						723

<210> 294

<211> 736

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(736)

<223> n = A,T,C or G

<400> 294

gnnnnnnnnna	gaccgactca	ctatagggcg	aattggggccc	tctagatgca	tgctcgagcg	60
gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	agcggcccgcc	cgggcaggta	120
cctgggatta	caggcaccca	ccaccacgcc	tggtcaattt	ttttttgtat	ctttagtagg	180
gtttttgccat	gttgggccagg	ctgggtcttta	actcctacct	cgtgatccac	ccgcctcggc	240
cccccaaagt	gctaggacca	caggcggtgag	ccaccacgcc	cagccccctg	tctctttttt	300
taaaacacaa	tttaaaagca	gaaagaaaaa	atctgtgtctg	tttagactca	gattcttaat	360
tagctagtat	ttcttaattc	aatcaataaa	ttattaagac	cttttcaactg	ctcccttttt	420
aaagtcttct	ttggagtgtg	ttaagtgtct	cttattacca	agctctcaaa	gagaagataa	480

```

aattaaaaatc tgatgggtaa ccattttaat aagacaactg gggtaaccca tttctccagg 540
accctctctc gcaacagaga gctattctct ttctttggcc tagtaaacct ctgctcttaa 600
ccttttaaaaa aaaaaaaaaa gtacctcggc cgcgaccacg ctaanggcga attccagcac 660
actggcgggc gttactagtg gatccgaact cggtcctcaact tggcgtaatc atggcatagt 720
ggttctctgng tgaaan 736

```

<210> 295

<211> 725

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(725)

<223> n = A,T,C or G

<400> 295

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gnnnnnnnnn anngngccct ctagatgcat gctcgagcgg ccgccagtgt gatggatata 60
tgcagaattc gccctttcga gcggccgccc gggcaggtag ctgggattac aggcacccac 120
caccacgcct ggctaatttt tttttgtatc ttttagtaggg ttttgccatg ttggccaggc 180
tggctcttaa ctctacctc gtgatccacc cgctcggcc ccccaaagtg ctaggaccac 240
aggcgtgagc caccacgccc agccccctgt ctcttttttt aaaacacaat ttaaaagcag 300
aaagaaaaaa tctgtgctgt ttagactcag attcttaatt agctagtatt tcttaattca 360
atcaataaat tattaagacc ttttcaactgc tcccttttta aagtcttctt tggagtgtatt 420
taagtgtctt ttattaccaa gctctcaaag agaagataaa attaaaatct gatgggtaac 480
catttaaata agacaactgg ggtaacccat ttctccagga cccctctctg caacagagag 540
ctattctctt tctttggcct agtaaacctc tgctcttaac ctttaaaaaa aaaaaaaaag 600
tacctcgggc gcgaccacgc taaggcgcaa ttccagcaca ctggcgggcg ttactagtgg 660
atccgaactc ggtaccaagc ttgcgtaatc atggcatagc tggttcctgt gtgaaatggt 720
atccg 725

```

<210> 296

<211> 742

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(742)

<223> n = A,T,C or G

<400> 296

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gnnnnnnnnn nnacaaanct gggtagggcg aattggggccc tctagatgca tgctcgagcg 60
gccgccagtg tgatggatat ctgcagaatt cgccctttcg agcggccgcc cgggcaggta 120
ccatgctgac ttcttggtat cttttaaggc ctaattttcc ctctcttgag attactgtag 180
tgtgttccag ctaatttcta tttggaaaag agttggaaca gctgaaaact aggtattatt 240
gaaggcaaaag cagcctcacg tcagtttttt atcagctcat ttgggaagtt tttttttttt 300
ttttttttta attaataga aagtaggctg ggcacggtag ctcatgccta taatcccagc 360
acttggggag gccgaggatc tcctctctgg tggatcactt gagggcagga gttaagagac 420
catctggcc aacatgatga aaccctgtct ctactaaaaa tacaaaaagt agctgggcgt 480
ggtggcatac ttttacaatc ccagctactt gggaggctga ggcaggagaa tcacttgaac 540
ctaggaagca gaggttgcag tgggccaaga tcacaccact atactctagc ctgggcgaca 600
gaagtgggga aaaaagtagg acccctgtcc tatattcang gttttctcac atatatgaac 660
ccatctaaat tctacgttgg taaaaggaac ctaagggttaa ttagnctata cttatttaag 720
aaccattntg gggnggagat gg 742

```

<210> 297

<211> 728

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature
<222> (1)...(728)
<223> n = A,T,C or G

<400> 297
tnnnntttga anncnacnct ctagngcatg ctccagcggc cgccagtgtg atggatatct 60
gcagaattcg cccttttcgag cggccgcccc ggcaggtacc atgctgactt cttgggtatct 120
tttaaggcct aattttccct tccttgagat tactgtagtg tgttccagct aatttctatt 180
tggaacgag ttggaacagc tgaaaactag gtattattga aggcaaagca gcctcacgtc 240
agttttttat cagctcattt gggaagtttt tttttttttt tttttttaat taattagaaa 300
gtaggctggg cacggtggct catgcctata atcccagcac ttggggaggc cgaggatctc 360
ctctctggtg gatcacttga gggcaggagt taagagacca tcctggccaa catgatgaaa 420
ccctgtctct actaaaaata caaaaagtag ctgggcgtgg tggcatactc ttacaatccc 480
agctacttgg gaggtgagg caggagaatc acttgaacct aggaagcaga ggttgcatg 540
ggccaagatc acaccactat actctagcct gggcgacaga agtggggaaa aaagtaggac 600
ccctgtccta tattcangtt tttctcacat atatgaacct atctaaattc tacgttggtg 660
aaggtancct aagttaatta gnctatactt atttaaganc aatatggggt gaaaatggat 720
tttttttn 728

<210> 298
<211> 745
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(745)
<223> n = A,T,C or G

<400> 298
gnnnnnnttna nnnnatacga ctactatat agggcggaatt gggccctcta gatgcatgct 60
cgagcggccg ccagtgtgat ggatatctgc agaattcgcc cttagcgtgg tcgcggccga 120
ggtaccacag ttttgcctca cactccttga ccgcaggggc tcggacacaa acccctgtca 180
ccaggagagt cagtcagcac tacttgggag ggctaaaggg aaatttgga ataaaattcc 240
aaagtttga gtaaaaaaat tcaagtgttg attttatatt ctttcccttt ctgacacagc 300
ctaaaagcga gggggaacat gtgtttatct gtgggagata aacaagatgg agtcccaaag 360
actttaacaa aatatttttt taaaaatcca ctagaataga aaatacatata tttagatata 420
ctttatgctg agagttagta tatatgcttg tctattttaa acttgtgaga aaaagtggta 480
tcccttgata cathtagaaa tatgggggct atcttgtttc attgtggggg tggggcagaa 540
ggagaataaa tgcaggatga ccctgttgaa ggaatcttag catggccaac aggggacgtt 600
tccagtogat taccaggaaa tgcaagcctt ggggtttcta ctggtggtgg ggctgtcatg 660
aactttaaaa tccaaagcct agacaaggaa aagtgttaga ccaattgaaa agcaatccac 720
cctttttttt tttttttttt ggctt 745

<210> 299
<211> 733
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(733)
<223> n = A,T,C or G

<400> 299
gnnnnnnnnn nnnnnnnnct ctagatgctg ctccaacggc cgccagtgtg atggatatct 60
gcagaattcg cccttagcgt ggtcgcggcc gaggtaccca cgttttgctc cacactcctt 120
gaccgcagg gctcggacac aaacccctgt caccaggaga gtcagtcagc actacttggg 180
agggctaaag ggaatttgg aataaaaatt ccaaagtgtg gagtaaaaaa attcaagtgt 240
tgattttata ttctttccct ttctgacaca gcctaaagcg tagggggaac atgtgtttat 300
ctgtgggaga taaacaagat ggagtccaa agactttaac aaaatatttt tttaaaaatc 360
cactagaata gaaaatacat tatttagata tactttatgc tgagagtggg tatatatgct 420

tgctctat	aaactt	gtga	gaaaaagt	gg	tatccct	tga	tacatt	taga	aatat	ggggg	480		
ctatctt	gtt	tcatt	gtgg	ggg	ggcag	aaggaga	ata	aatgcc	agga	tgacct	gtt	540	
gaagga	atct	tancat	ggcc	aacag	gggac	gtttcc	agtc	gattacc	agg	aatgca	agc	600	
cttggg	gtt	ctact	gg	tggg	gctg	tc	atgaac	nttt	aaaat	ccaaa	gcctag	acca	660
aggaaa	agt	ttagan	ccan	tggaaa	agcc	attccag	cccc	tttttt	tttn	nnnn	ttttt	g	720
gctttt	cacc	aca										733	

<210> 300

<211> 741

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(741)

<223> n = A,T,C or G

<400> 300

gnnnnt	gann	gtatac	gaac	tcactat	agg	gcgaatt	ggg	ccctct	tagat	gcatg	ctcga	60
gcggcc	gccca	gtgtg	atgga	tatctg	caga	attcgcc	ctt	tcgagc	ggcc	gcccc	ggcag	120
gtacgt	agtc	taggcc	atat	gtgtt	ggaga	ttgagac	tag	tagggc	tagg	cccac	cgctg	180
cttcgc	caggc	ggcaa	agact	agtat	ggcaa	taggcac	aat	attggc	taag	agggag	tggg	240
tggtg	aggt	tatga	gagta	gctata	atga	acagcg	atag	tattatt	cct	tctagg	caca	300
gtaggg	agga	tatga	ggtgt	gagcg	atata	ctagt	tattc	tagaag	ttag	atggt	aaatg	360
ctagt	tataat	atttat	gtaa	atgagg	ggcc	ccgcgt	actc	aagtgg	gtct	ctgcct	ctca	420
gtggt	ggcct	tggct	cttcaa	gtttc	agcaa	ttctgg	gaag	ccaagg	acac	ctccat	ctcc	480
tctctc	ctga	tctgca	actc	atcta	agagc	agcttt	ctca	ctgga	atgtc	ttgtg	tttaa	540
ggaaca	agaa	tccctg	tttc	cggtt	tgggt	gcccc	aagtgc	acctac	tggg	tccaa	cccag	600
gattg	gagat	actttg	caga	acaca	acatc	atctgg	caca	tgacc	agcca	tgggt	gtttca	660
ctttca	caat	ttcagc	ttnc	ttcact	gatt	gcagc	ataat	cgnggt	caac	acctt	caaga	720
ccaagg	ctga	tgtggg	ccgc	t								741

<210> 301

<211> 724

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(724)

<223> n = A,T,C or G

<400> 301

gnnnnt	ntn	antggg	ccct	ctnngn	catn	gctcg	agcgg	cacg	ccagt	tgatg	gatat	60		
ctgcaga	aat	cgccct	ttcg	agcgg	ccgcc	cgggc	aggt	cgtag	tctag	gccat	atgtg	120		
ttggag	attg	agact	agtag	ggct	aggccc	accg	ctgctt	cgag	ggcggc	aaag	actagt	180		
atggca	atag	gcaca	atatt	ggcta	agagg	gagtg	gggtg	tgagg	gttat	gagag	tagct	240		
ataat	gaaca	gcgata	gtat	tattc	cttct	aggca	cagta	ggga	ggat	at	gaggt	gtgag	300	
cgata	tacta	gtattc	cttag	aagt	gagatg	gtaaa	tgcta	gtata	atatt	tatg	taa	atg	360	
agggg	ccccg	cgtact	caag	tgggt	tctctg	cctct	cagtg	gtggc	cttgg	tctt	caag	tt	420	
tcagca	attc	tggga	agcca	aggac	acctc	catct	ctctc	tcctg	atct	gcaac	tcac	t	480	
taagag	cagc	tttct	cactg	gaatg	tcttg	tgttt	taagga	acaaga	aatcc	ctgtt	tccg	g	540	
tttggg	tgcc	caagt	gcacc	tactg	gatcc	aaccc	aggat	tggag	atact	ttgc	aga	aaca	600	
caacat	catc	tggca	catga	ccagc	catgg	tgttt	caact	tcaca	atttc	agctt	ncttc		660	
actgat	tga	cataat	cg	tg	caacac	ct	tcaag	accan	ggctg	atg	tn	ggccg	ntaca	720
ngga													724	

<210> 302

<211> 745

<212> DNA

<213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(745)
 <223> n = A,T,C or G

<400> 302
 gnnnntgaaa gtntanacga ctactatag ggccaattgg gccctctaga tgcattgctg 60
 agcgcccgcc agtgtgatgg atatctgcag aattcgccct ttcgagcggc cgcccgggca 120
 ggtactattc cggatataca agatcactgg gagatgttga tgatggagac acagtgcag 180
 atttcatggc ccaagagcga gaaagaggca ttactattca atcagctgct gttacatttg 240
 attggaaaagg ttatagagtc aatctaattg atacaccagg tcatgtggac tttaccttgg 300
 aggttgagcg gtgcctaaga gtgttgatg gtgcagtggc tgtatttgat gcctctgctg 360
 gtgtagaggc ccagactctc acagtatgga ggcaagctga taaacacaat atacctcgaa 420
 tctgtttttt aaacaagatg gacaaaactg gagcaagctt taagtatgca gttgaaagca 480
 tcagagagaa gttaaaggca aagcctttgc ttttacagt accaattggt gaagccaaaa 540
 ctttcaaagg agtgggtgat gtagtaatga aagaaaaact tctttggaat tgcaattcaa 600
 atgatggaaa agactttgag agaaaagccc tcttggaat gaatgatcct gaattgctga 660
 aggaacaac tgaagcaagg aatgccttaa ttgaacaagt tgcagaattt ggatgatgaa 720
 ttgctgactt ggggtttanaa naaat 745

<210> 303
 <211> 724
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(724)
 <223> n = A,T,C or G

<400> 303
 gnnnttcgan tgggcccttc tagatgcatg ctgcagcggc cgccagtgtg atggatatct 60
 gcagaattcg cccttttcgag cggccgcccc ggcaggtact attccggata tacaagatca 120
 ctgggagatg ttgatgatgg agacacagtg acagatttca tggccaaga gcgagaaaga 180
 ggcattacta ttcaatcagc tgctgttaca tttgattgga aaggttatag agtcaatcta 240
 attgatacac cagggtcatgt ggactttacc ttggagggtg agcgggtgct aagagtgttg 300
 gatgggtcag tggctgtatt tgatgcctct gctgggttag aggccagac tctcacagta 360
 tggaggcaag ctgataaaca caatatacct cgaatctgtt ttttaaaaa gatggacaaa 420
 actggagcaa gctttaagta tgcagttgaa agcatcagag agaagttaaa ggcaaaagcct 480
 ttgcttttac agttaccaat tgggtgaagc aaaaacttca aaggagtggg ggatgtagta 540
 atgaaagaaa aacttctttg gaattgcaat tcaaatgatg gaaaagactt tgagagaaaag 600
 cccctcttgg aatgaatga tcctgaattg ctgaaggaaa caactgaagc aagggaatgcc 660
 ttaattgaca agttgcagat ttggatgatg aatttgctga cttgggttta gaagaattan 720
 tgag 724

<210> 304
 <211> 741
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(741)
 <223> n = A,T,C or G

<400> 304
 gnnnnnngaa agtntacgac tcactatagg gcgaattggg ccctctagat gcatgctcga 60
 gcggcccgcca gtgtgatgga tatctgcaga attcgccctt agcgtggctg cgcccgaggt 120
 actttataaa tgggaattttc ttctacttgt atccatttcc cggggcttat ggacccattc 180
 atactctcca tatttagaat caaaggttcc tttctgaaga gaccttaatt ttaaggtaaa 240
 acgtgggtcca agttcctgaa ttcccacttt cttttcactc ctgaatatgt atctgtgaaa 300
 tctgaagaat atgtaatccc gttgattgtg gaattgggca acctgccttc cgataaattg 360

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aggattatga ggaaagagag atgcaaacat acgtccaatt gaatgaccca gccgtgttgt 420
aaaattattc agaattattt cagggtatgtg ttctgtgggg tccttgccctc ttctcttaat 480
ttctttacga agacgaacac tgctcatttt aaaatgagca gttggggccat ttggcaagtgt 540
actcaaaata agtccatttg gggtttttacg atcttcatta ataacaatca ggtctgtgaa 600
atctcttgcg atgcactgtg gaataatttt ttccagaacc agcctcttct gtaataaaca 660
tgtgagtttg gtataactgt gganagctgt cacagagtcg taccagtata ccaaccatac 720
caactntgtt gtagagcaaa a 741

```

<210> 305

<211> 719

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (719)

<223> n = A,T,C or G

<400> 305

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gnnnttncaa ntggggccctc tngatgcatg ctccagcgcc cgccagtgtg atggatatct 60
gcagaattcg cccttagcgt ggtcgcgcc gaggtacttt ataaatggaa ttttcttcta 120
cttgatatcca tttcccgggg cttatggacc cattcatact ctccatatatt agaatacaaag 180
gttcctttct gaagagacct taattttaag gtaaaacgtg gtccaagtcc ctgaattccc 240
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tttggaatg tggcaacctg ccttccgata aattgaggat tatgaggaaa gagagatgca 360
aacatacgtc caattgaatg acccagccgt gttgtaaaat tattcagaat tatttcaggt 420
atgtgttctg tgggggtcctt gcctcttctc ttaatttctt tacgaagacg aacctgctc 480
attttaaaat gagcagttgg gccatttggc aagtgactca aaataagtcc atttgggggtt 540
ttacgatctt cattaataac aatcaggtct gtgaaatctc ttgcgatgca ctgtggaata 600
attttttcag agccagtcct cttctgtaat aaacatgtga agtttggtat actgtggana 660
gctgtcacag agtcgacagt ataccaacca taccaactct gttgnagaac anaacccat 719

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<210> 306

<211> 746

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (746)

<223> n = A,T,C or G

<400> 306

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gnnnnntgaa agtatacgac tcactatagg gcgaattggg ccctctagat gcatgctcga 60
gcgcccgcca gtgtgatgga tatctgcaga attcgccctt tcgagcgccc gcccgggcag 120
gtactccagc ccaggcgaca gaggtagact cagtctcaaa aaaaaaaaaa atttgggcaa 180
gttatagtcc atctcatagt gttgttagga ctaatttctt catgtgctta gaaaaatgcc 240
tggcagatag gaaatggtca atattattat tattgataag atgaccattt tggagtttag 300
aaaaccattt tcaatgccta tgaaataaca actccataag ccattccctt aaatccagta 360
gactgaattc tcacaagtcc tcatactca tcatttctac atcctgctga tttacaaata 420
cttcttcata ccatgggttta tgtctttgct taatatcaag gaggatggat tccatggtag 480
agccaaactc aatgatacta cgagtctcat tttggtaagt ataagcaaaag ccagcagcat 540
gcatggccac caatgaacct tttgaatcaa acacagggga gcccggaagc cccaaagaaa 600
aattcagtg cataggtaat cacatcangg ttgtgaacta ttttctggaa acttctttga 660
gtatacatat ggacatactc tggactttct gcttttttag actgaacacg ttcttgacat 720
ttctttgctc gctgacctg anggat 746

```

<210> 307

<211> 725

<212> DNA

<213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(725)
 <223> n = A,T,C or G

<400> 307
 gnnnnntnch antggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60
 gcagaattcg ccccttcgag cggccgcccg ggcagggtact ccagcccagg cgacagagtg 120
 agactcagtc tcaaaaaaaaa aaaaaatttg ggcaagttat agtccatctc atagtgttgt 180
 taggactaat ttcttcatgt gcttagaaaa atgcctggca gataggaaat ggtcaatatt 240
 attattattg ataagatgac cattttggag tttagaaaac cattttcaat gcctatgaaa 300
 taacaactcc ataagccatt cccttaaatc cagtagactg aattctcaca agtcctcatc 360
 actcatcatt tctacatcct gctgatttac aaatacttct tcataccatg gtttatgtct 420
 ttgcttaata tcaaggagga tggattccat ggtagagcca aactcaatga tactacgagt 480
 ctcatcttgg taagtataag caaagccagc agcatgcatg gccaccaatg aaccttttga 540
 atcaaacaca ggggagccgg aagcccccac gaaaaattca gtgtcatagg taatcacatc 600
 anggttgtga actattttct ggaaacttct ttgagtatac atatggacat actctggact 660
 ttctgctttt ttagactgac acgttcctga catttctttg ctcgctgacc ctgagggatc 720
 acang 725

<210> 308
 <211> 744
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(744)
 <223> n = A,T,C or G

<400> 308
 gnnnnntgaaa gtaatacgac tcaactatagg gcgaattggg cccctctagat gcatgctcga 60
 gcggccgcca gtgtgatgga tatctgcaga attcgccctt tcgagcggcc gcccgggcag 120
 gtacgcgggg tgacaagtag caacatggct tgggtccctt gtgcagcatc agcttatgct 180
 gccacaagtc agtttgcacc ctagggtacc aggagctagt atccttagat ctttctatcg 240
 ctaacttaat tctcttcgtt atttatctga ccccttaact ccatgtctaa cttgcattaa 300
 aaaaaaaaaa attctttaca gtcaaccacaa gcttaacatg gactcagggt ccccgagcag 360
 cttaatttgt tttgttaaca tctgttcctt ctttttcagc tctcctagag tatttctgag 420
 tgttgtgttc atctaattctt agtattcttt taattacaaa ttgacctcac agcttgaggt 480
 ttctgtgtgc ttattctgtg gactacctgt gctcctttgc ttccctctcc ctcgcataat 540
 aactatatta agaaattttt tttggccttg agttggctgg aaaaaaaaaa taaaatttaa 600
 aaaaaaaaaa nnnnnnnnaa aaaaaaaaaa tacctnggcc gggaccacgc taanggcgaa 660
 ttccagcaca ctggcgccg ttactaagtg gatccgaact cggtagcaac ttggcgtaat 720
 catggcatag ctggttcctg ngga 744

<210> 309
 <211> 746
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(746)
 <223> n = A,T,C or G

<400> 309
 gnnnnntnca ntggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60
 gcagaattcg ccccttcgag cggccgcccg ggcagggtact cggggtgaca agtagcaaca 120
 tggcttgggt cccctgtgca gcatcagctt atgctgccac aagtcagttt gcaccctagg 180
 taccagggag ctagtatcct tagatcttct tatcgctaac ttaattctct tcgttattta 240
 tctgaccctc taactccatg tctaacttgc attaaaaaaa aaaaaattct ttacagtcaa 300
 cccaagctta acatggactc aggttcccca gcagccttaa tttgttttgt taacatctgt 360

tccttctttt	tcagctctcc	tagagtattt	ctgagtgttg	tgttcattta	atcttagtat	420
tctttttaatt	acaaattgac	ctcacagctt	gaggtttcct	gtgtcttatt	ctgtggacta	480
cctgtgctcc	tttgcctccc	ctccctcgc	ataataacta	tattaagaaa	tttttttgg	540
ccttgagttg	gctggaaaaa	aaatataaaa	tttaaaaaaa	aaannnnnnn	nnnnaaaaaa	600
aaaagtcctt	ggccgggacc	acnctaangg	cgaattccca	gcacaactgg	gcggnccgtt	660
actaagggga	atcccnaact	tnngnaccn	aaacttgggc	gtaaaacaat	gggncaataa	720
gctggnnnc	ctggnngtga	aaaatt				746

<210> 310

<211> 751

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(751)

<223> n = A,T,C or G

<400> 310

gnnnntgana	gtaatacgac	tcactatagg	gcgaattggg	ccctctagat	gcatgctcga	60
gcggccgcca	gtgtgatgga	tatctgcaga	attcgccctt	tcgagcggcc	gcccgggcag	120
gtacttaatt	cctttctcct	cctggacatc	agagagaaca	cctgggtatt	ctggcagaag	180
tttatatttc	tcctaatcaa	ttcttgaaa	aaacgtgtca	ctttcaaagt	cttgcatgat	240
ccttgtcaca	aatagtttaa	gatggcctgg	gtgattcatg	gcttccttat	aaacagaact	300
gccaccaact	atccagacca	tgtctacttt	atttgcta	tctggttgtt	cagtaagttt	360
taaggcatca	tctagacttc	tggaaagaaa	atgagctcct	tgtggaggtt	ccttgagttc	420
tctgtcgaga	actaaattaa	ttctaccctt	ttaaaggtcga	ttcttctcag	gaatggagaa	480
ccagggtcttc	ttaccataaa	tcaccagatt	ctgnttacct	tctactgaag	aagttgtggt	540
cattctctgg	aaatatctga	attcattcct	gagcgggtggc	caaggcangt	ncccggtctt	600
gccgatgccc	atgttctggg	acacagcgac	gatgcagttt	agcgaaccaa	ccatgacagc	660
aaccggggang	accttcgagc	cccgttcgnt	acaagccccc	gcgtaccttn	gggcccngaa	720
cacgcttaag	ggcgaattnc	aacacactgg	c			751

<210> 311

<211> 724

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(724)

<223> n = A,T,C or G

<400> 311

gnnttncnan	tgggccctct	agatgcatgc	tcgagcggcc	gccagtgtga	tggatatctg	60
cagaattcgc	cctttcgagc	ggccgcccgg	gcaggtaact	aatgcctttc	tcctcctgga	120
catcagagag	aacacctggg	tattctggca	gaagtttata	tttctccaaa	tcaattttctg	180
gaaaaaacgt	gtcactttca	aagtcttgca	tgatccttgt	cacaaatagt	ttaagatggc	240
ctgggtgatt	catggcttcc	ttataaacag	aactgccacc	aactatccag	accatgtcta	300
ctttattttg	taattctggt	tgttcagtaa	gttttaaggc	atcatctaga	cttctggaaa	360
gaaaatgagc	tccttgtgga	ggttccttga	gttctctgct	gagaactaaa	ttaattctac	420
cctttaaagg	tcgattcttc	tcaggaatgg	agaaccaggt	cttcttacct	ataatcacca	480
gattctgttt	accttctact	gaagagggtt	tggtcattct	ctggaaatat	ctgaattcat	540
tcctgagcgg	tggccaaggc	angtccccgt	tcttgccgat	gcccattgtc	tgggacacag	600
cgacgatgca	gtttancgaa	ccacccatga	cagcagcggg	aggaccttcg	agcccgcctc	660
ttacaagccc	ccgcgtacct	tnggccgcga	acaccttang	gcgaaattca	acacactggc	720
ggcc						724

<210> 312

<211> 738

<212> DNA

<213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(738)
 <223> n = A,T,C or G

<400> 312
 nnnntttgaa gnctacnact cactataggg cgaattgggc cctctagatg catgctcgag 60
 cgcccgccag tgtgatggat atctgcagaa ttccgccctt gagcgccgc ccgggcagggt 120
 acgccccggg cagacatggc gacattgaca gtggtccagc cgctcaccct ggacagagat 180
 gttgcaagag caattgaatt actggaaaaa ctacaggaat ctggagaagt acgttctacta 240
 attatctaca aggacaaaat cagttgtatt tacaaaaact tacttcagtg tttgttttag 300
 tttttttttt actgaaactt gttttgtga atactctgtg cttagaatta aatatcactt 360
 tcttatgaac aacataactt cttcagattg tgtatatgaa aacattagca agtcttggtt 420
 tttctatgaa gcaaacacaa ttggtgacaa aggttgtaa tcatttcttc aaaattataa 480
 tgcagttcta atggtcagca ttttttgata ttaaatttaa agatcacctc tctgcatttg 540
 tttttaaatt atgctaatac accacacatt atggttggtat gttttggtct gtcctcgcc 600
 gcgaccacgc ttangcgaa ttccagcaca ctggcgggcc gttactagt gatccgagct 660
 cggccaagc tggcgtaatc atggtcatag ctggttcctg tgtgaaatgg tatccgttac 720
 aattcccaca catacgan 738

<210> 313
 <211> 720
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(720)
 <223> n = A,T,C or G

<400> 313
 gnnnttncaan tgggcccctc agatgcatgc tcgagcgcc gccagtgtga tggatatctg 60
 cagaattcgc cctttgagcg gccgcccggg caggtacgcg gggggcagac atggcgacat 120
 tgacagtggg ccagccgctc accctggaca gagatgttgc aagagcaatt gaattactgg 180
 aaaaactaca ggaatctgga gaagtacgtt cactaattat ctacaaggac aaaatcagtt 240
 gtatttaca aactctactt cagtgtttgt ttttagtttt tttttactga aacttggttt 300
 tgtgaatact ctgtgcttag aattaaatat cactttctta tgaacaacat aacttcttca 360
 gattgtgtat atgaaaacat tagcaagtct tgttttttct atgaagcaaa cacaattggt 420
 gacaaagggt gtcaatcatt tcttcaaaat tataatgcag ttctaattgg cagcatattt 480
 tgatattaaa tttaaagatc acctctctgc atttggtttt aaattatgct aatacaccac 540
 acattatggt ggtatgtttt gntctgtacc tcggccgcga ccacgctaan ggcgaaattca 600
 ncacactggc ngncgttact agtggatccg agctcggacc aaacttggcg taatcatnqn 660
 catagctggg tctgtgtga aaatgggtat cgttacaatt tcacacacat acgagccgga 720

<210> 314
 <211> 740
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(740)
 <223> n = A,T,C or G

<400> 314
 gnnnnnttnaa gnctacgact cactataggg cgaattgggc cctctagatg catgctcgag 60
 cgcccgccag tgtgatggat atctgcagaa ttccgccctt gcgtggctgc ggccgaggta 120
 cttttttttt tttttttttt ttagtgcttt ctactttatt aaacatcaaa gcccaaatag 180
 atgttccctg tggaggagga cttaaggaca ctaggggagg agaaagggac acctgggaag 240
 agaatcacac cacagagacc aatcttcaca aaaagggtcc aatattgatt tctagggagg 300
 agcagggcat ggtcagctca aatttggtga taacgtcagg atgaaggacc ccaagcttcc 360

cgacgctttg	acccctggca	aagatctctg	cacatcgccc	ggggaagaaa	gcaggccctt	420
ctgatgcttt	gatacatat	cccccttgt	cttcaccagg	aggcacatcg	agcaactgca	480
taattctgtc	cagcagccca	tgaatgatct	caaaccagg	attcttgntg	taataaacag	540
cactgagatg	tctgtagttt	tttgaccta	catctgnatt	agaatctttt	attacaatgt	600
cagagatttc	aaacagtctc	agtgggaagg	gcattcttacg	attgctgcta	tggcttcagg	660
angccaggaa	gaagggtagt	gcgtgccacc	tgaaattcac	tggttttagga	tacttatgtg	720
gactggcttt	gttgcaaaan					740

<210> 315

<211> 722

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(722)

<223> n = A,T,C or G

<400> 315

gnnnnnnnnn	nnnnnnntnn	atgctgctcg	agcggccgce	agtgtgatgg	atatctgcag	60
aattcgccct	tagcgtgggc	gcggccgagg	tacttttttt	tttttttttt	tttttagtgc	120
ttctacttta	ttaaacaat	aagcccaaat	agatgttccc	tgtggaggag	gacttaagga	180
cactagggga	ggagaaagg	acacctggga	agagaatcac	accacagaga	ccaatcttca	240
caaaaagggt	ccaatattga	tttctaggga	ggagcagggc	atggtcagct	caaatttggt	300
gataacgtca	ggatgaagga	ccccaagctt	cccagcgtt	tgacccctgg	caaagatctc	360
tgacacatgc	ccggggaaga	aagcaggccc	ttctgatgct	ttgatcacat	atccccctt	420
gtcttcacca	ggaggcacat	cgagcaactg	cataattctg	tccagcagcc	catgaatgat	480
ctcaaaccga	ggattcttgt	tgtataaac	agcactgaga	tgtctgtagt	tttttgcacc	540
tacatctgna	ttagaatctt	ttattacaat	gtcagagatt	tcaaacagtt	tcagtggaaa	600
ggggcatctt	acgatttgct	gctatggntc	tcangaggnc	angaaaaagg	gtantgcntg	660
cccttgaaat	tcantctggt	taggattacc	tatgtggact	ggctttgntg	caaaaaaant	720
cn						722

<210> 316

<211> 753

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(753)

<223> n = A,T,C or G

<400> 316

gnnnnnttna	nagtnnnnac	gactcactat	aggggcgaac	ncctctncatg	catgctcnan	60
cggnccnncan	ngtgaatgat	atntgctgan	ttcgccctta	ccntngcntn	ggccgaggcg	120
cagntcccac	gtntngctcc	ncactncnnn	accgcagggg	cnngacnncn	gaccngngnn	180
ncnnngngag	tnccncagca	ctacttgga	nggctanagg	gaagnttgga	aataaaattc	240
caaannttgg	agtaaaagca	atncangcgn	ngattatata	tgntnnccct	ttctgacacn	300
ncctagagcg	tagggggaac	atngntntat	ctgtgggana	tnaacaagat	ggagtcccaa	360
agactttaac	aaagntattt	cttaannatc	cnctacaatn	nanaatncat	tattcatatn	420
tactntatgc	tgnnagtggg	tatntatgct	ngtcctattt	aaacttgnga	gaanaagtgg	480
tncccttga	tacattnaga	aatatggggg	ctatcttgnt	ncattgtggg	ggtggggcan	540
aagganaatn	aatgcangat	gaccctgttg	aangaatctt	aacatggcca	acanggggac	600
ngtttacagt	cgattaccag	gaaangcaag	ccttgggggt	tctactgcng	gtgggggctg	660
tcatgaactt	naaaatccan	agnctatacc	aggaaaaagt	gttangaccc	aattgaaang	720
ctntccaccc	tttctttttn	ttgttccng	cnc			753

<210> 317

<211> 893

<212> DNA

<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(893)
<223> n = A,T,C or G

<400> 317
gtgnnnntntn cnaaatggnc cntttnaatg cctncctcga gcgggcccgc agtgtgatgg 60
atntntaatt cgncccttagc gtggtcgcg cggnggtacn aangaaataa aantnacagt 120
ntcaaagaac caaantaagt cggacacaaa cccctgtcac cannagagtc ccatanacat 180
aannnggntn ntgtcaagna ggattnaaat taactttaac aacnttntat ataagtctac 240
attccccaat taataaagga nagttcacat atacanctaa ntgntaattg tggaaanaag 300
ggtgaaantn tgcatannta atannaaana atgctgaang cttttncata nnattnnctt 360
aaaaatncac ttncnatgca gcantangtn tacatgctta atntatcntg cnagtgtatn 420
ntatgcttgt cctacatgac ntaccttgaa caactgggac tncccgagatt catactgaaa 480
tatggggncg ntaantatnt tgggancggg annacntgaa tccctcaaagg atannnnntn 540
tccagntgga tgaaccnat nattnaaang gatatnnnta accatnggan cgaatgnncg 600
nngntctttt tcaatnnntc gngaagntnc cnnttnnata nccccggggc cncattgngg 660
ggntatntn ncaatcaann ccnngagntg tntnntcntt cntcnaccgc ataacctttt 720
gccatagga accttntttt aacccctttg gnttatnggg aaanaannnn nnttttaaatt 780
tcnccaaaat ngggaaaaan aacccttntc actctaaaaa nttanccnta gacctanttn 840
tngngncata tttgntaaac nctatggnc ctcnagnggg gnnctgggnc nnc 893

<210> 318
<211> 744
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 318
gnnnnngattg tatacgactc actatagggc gaattggggc ctctagatgc atgctcgagc 60
ggccgcccagt gtgatggata tctgcagaat tcgccccttc gagcgggccgc ccgggcaggt 120
acctcattag taattgtttt gttgtttcat ttttttctaa tgtctccctt ctaccagctc 180
acctgagata acagaatgaa aatggaagga cagccagatt tctcctttgc tctctgctca 240
ttctctctga agtctaggtt acccattttg gggacccatt ataggcaata aacacagttc 300
ccaaagcatt tggacagttt cttgttgtgt tttagaatgg ttttcctttt tcttagcctt 360
ttcctgcaaa aggtcactc agtcccctgc ttgctcagtg gactgggctc cccagggcct 420
aggctgcctt cttttccatg tcccacccat gagccctcca ctggacagct cagtaagcct 480
ggcccttcat tctgcgctgt gttcttctc tgtgaaaatc caatacctct tacctcctct 540
gcatgcaaag attctcaagg attgtcagac ttcaaacgta acagcagaac caccagaagg 600
tcctataaat gcagtagtga ccttctcaag ctgtcanggc tttaaatagg atttgggatt 660
taatgctatg tattttttaa ggaaagaaat aagagttgct agtttttaaa atgcatgtct 720
tttaccatt canaatctgg cccc 744

<210> 319
<211> 720
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(720)
<223> n = A,T,C or G

<400> 319
gngtttaaac cttcttanng ctgctcgagc ggccgccagt gtgatggata tctgcagaat 60
tcgccccttc gagcgggccgc ccgggcaggt acctcattag taattgtttt gttgtttcat 120
ttttttctaa tgtctccctt ctaccagctc acctgagata acagaatgaa aatggaagga 180

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cagccagatt tctcctttgc tctctgctca ttctctctga agtctaggtt acccattttg 240
gggacccatt ataggcaata aacacagttc ccaaagcatt tggacagttt cttgttgtgt 300
tttagaatgg ttttcctttt tcttagcctt ttcttgcaaa aggtctactc agtcccttgc 360
ttgctcagtg gactgggctc cccagggcct aggtctgcctt cttttccatg tcccacccat 420
gagccctcca ctggacagct cagtaagcct ggcccttcat tctgcgctgt gttcttcttc 480
tgtgaaaatc caatacctct tacctcctct gcatgcaaag attctcaagg attgtcagac 540
ttcaaacgta acagcagaac caccagaagg tcctataaat gcagtagtga ccttctcaag 600
ctgtcanggc tttaaatagg atttgggatt taatgctatg tattttttaa ggaaagaaat 660
agagttgcta gttttaaaaa tgcattgtctt ttaaccaatt cagaatctgg cccnaactt 720

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<210> 320

<211> 694

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(694)

<223> n = A,T,C or G

<400> 320

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atgctcgagc ggnccggcant gtgatggatn tctgcagaat tcgccctttc gagcgggccgc 60
ccgggcaggt actattccgg atatacaaga tcaactgggag atgttgatga tggagacaca 120
gtgacagatt tcatggccca agagcgagaa agaggcntta ctattcaatc agctgctgtt 180
acatttgatt ggaaagggtta tagagtcaat ctaattgata caccaggtca tgtggacttt 240
accttgaggg ttgagcggtg cctaagagtg ttggatgggt cantggctgt atttgatgcc 300
tctgctggtg tagaggccca gactntcaca gtatggaggc aagctgataa acacaatata 360
cctcgaatct gttttttaa caagatggac aaaactggag caagctttaa gtatgcagtt 420
gaaagcatca gagagaagtt aaaggcaaag cctttgcttt tacagttacc aattggtgaa 480
gccaaaactt tcaaaggagt ggtggatgta gtaatgaang aaaaacttct ttgggaattg 540
caattcaana tgatggaaaa gactttgaga gaaagccctt cttggaaatg aatgatcctg 600
aattgctgaa ggaaacaact gaacaaggaa tgccttaatt gaacaaagt gcagatttgg 660
atgatgaatt tgctgacttg gttttaagaa gaat 694

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<210> 321

<211> 781

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(781)

<223> n = A,T,C or G

<400> 321

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gngttnacna ntgggccctc tngatgctgc tcgagcggcc gncagtggtga tggatntctg 60
cagaatncgc cctncgggag gccgnccggg cagggtactat nccggatata caagatcact 120
gggagatggt gatgatggag acncagngac agatttcatg gcccaagagc gagaaagagg 180
cnttactatn caatcagctg ctgttacatt cgatttgaaa ggttatngag tcaatctaata 240
tgatncacca ngtnatgtgg actttacctt ggaggttgag cgtgcctaa nagtgttggg 300
tggtgcannng gctgtatttg atgcctctgc tggtgtagag gccagactc tcacagtatg 360
gatgcaagct gataaacaca atatacctng aatctgtgtt ttaaacaaga tggacaaaac 420
tggagcaagc tttaaagtnt gcagttgaaa gcatcagaga gangttnaag gcanagcctt 480
tgcttttaca gtttcccaat tgggtgaaac ccaaaaacttt tcaaaggag ttggttggat 540
tgtaagtaat gaaaggaaaa acttcttttg gaaantggca atttcaanat gattggaaaa 600
ngacttttgg gagaaaagcc cttctcttgg aaaatngaaa tgatncctga aatttgcngt 660
aaanngaaaa cnaactgna atccaangga attncctttt aanttggaa aaaggnttgc 720
naanttttng attgaatnga atttgncong cntttnggtt ttangaaaga aattaaagng 780
g 781

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<210> 322

<211> 744

<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 322
gnnntganag tatcgactca ctatagggcg aattggggccc tctagatgca tgctcgagcg 60
gccccccagt gtgatggata tctgcagaat tcgcccttcc gagcggccgc ccgggcaggt 120
acgcggggac tgggtttttc tccttttgta gccttttcc ttagtctcct cttccccggtg 180
gttggtaaaa agaggtgaat tgacagccta tggtagaac actgtgcttt tctcaagaag 240
gacatccaaa cagcaagtct acttctttct ctttaacgat gtgctcatta tcaccaagaa 300
gaagagtga gaaagttaca acgtcaatga ttattcctta agagatcagc tattggtgga 360
atcttgtgac aatgaagagc ttaattcttc tcagggggaag aacagctcca caatgctcta 420
ttcaagacag agctctgcca gtcacctctt tactctgaca gtccttagta accacgcgaa 480
tgagaaaagt gagatgctac taggagctga gacgcagagc gagcgagccc gctggataac 540
tgccctggga cacagcagcg ggaagccgcc tcgagaccga acctnactga cccaggtgga 600
aatcggttagg tcatttactg ctaagcagcc agatgaactc ttctctgcag ggctgacgtc 660
gtctcatct atcaacgtgt cagcgatggc tggtagaag gggaacgact tcgagatgga 720
gaaagaagnt gggttcctat ggaa 744

<210> 323
<211> 723
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(723)
<223> n = A,T,C or G

<400> 323
gtgtttcaan cggtcctcta gatgctgctc gagcggccgc cagtgtgatg gatattctgca 60
gaattcgccc ttctgagcgg ccgcccgggc aggtacgcgg ggactgggtt tttctccttt 120
tgtagccttt tccttttagtc tcctctccc ggtgggttgg aaaaagaggt gaattgacag 180
cctatgttga agacactgtg cttttctcaa gaaggacatc caaacagcaa gtctacttct 240
ttctctttaa cgatgtgctc attatcacca agaagaagag tgaagaaagt tacaacgtca 300
atgattattc cttaagagat cagctattgg tggaaatctg tgacaatgaa gagcttaatt 360
cttctccagg gaagaacagc tcacaaatgc tctattcaag acagagctct gccagtcacc 420
tctttactct gacagtcctt agtaaccacg cgaatgagaa agtggagatg ctactaggag 480
ctgagacgca gagcgagcga gcccgcctgga taactgccct gggacacagc agcgggaagc 540
cgctgcagac cgaacctcac tgacccaggt ggaaatcggt aggtcattta ctgctaagca 600
gccagatgaa ctcttctgc angtggctga cgtcgtctc atctatcaac gtgtcancga 660
tgggtggtatg aaggggaacg actacnagat ggagaaagaa gctgggttcc tatggaatgt 720
gcc 723

<210> 324
<211> 746
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 324
gggnntgaag nncngactca ctatagggcg aattggggccc tctagatgca tgctcgagcg 60
gccccccagt gtgatggata tctgcagaat tcgcccttag cgtgggtcgc gccgaggtac 120
cttgagatct gagcaactgt gttaatgaag taatagcaat ggtccacagt gaaagatgtg 180

ttgggggtttg	caaaacaagc	attccgtcac	ctctttaata	atgtcacaga	cttttttaaa	240
agagaggcta	tcaagtgta	atataatctg	tcatgtttta	tttaggaagg	aaggtaaatt	300
tgtgcttgca	cggggatcat	tttgatttat	ttntgcta	acccagttga	agctaaaaag	360
caactatttg	aatcctgtga	attaatttat	aagaatgtta	aacagctntg	gaaatacatg	420
catcttatga	atcatagcct	tatttagcaa	gatcaatgtt	aaagtgttga	tatatggcaa	480
gtatttaaca	cattcacagt	gntagtttga	tttcaactgt	gaattgtctt	acagtttttt	540
caaacctagt	gtntctatgg	acacctgctc	tgaattgtac	ccctcagtca	ccaccaaaagc	600
attnacccc	ctttcaaccc	ccaatcagac	cantgctttc	agtggatttg	gaggacttnt	660
atcacagctt	catnangtgg	tcttggcaca	ggcagnctga	ctngcttngg	aactggtgct	720
tttgactcc	cttcaanngn	aatant				746

<210> 325

<211> 742

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (742)

<223> n = A,T,C or G

<400> 325

gtgtttcann	cgccctcta	gatgcatgct	cgagcggccc	gccagtgtga	tggatatctg	60
cagaattcgc	ccttagcgtg	gtcgcggccg	aggtaccttg	agatctgagc	aactgtgtta	120
atgaagtaat	agcaatggtc	cacagtga	gatgtgttgg	ggtttgcaa	acatgcattc	180
cgtcacctct	ttaataatgt	cacagacttt	tttaanagag	aggctatcaa	gttgnatat	240
aatctgtcat	gtattattta	agaaggaagg	taaatntgtg	cttgacggg	gatcattttg	300
nattatttct	gctnatcccc	agctgaagct	nanaancnac	tnnttgnatc	ctgtgantta	360
atncatanna	atgttanaca	gctntggaaa	tccatgcctc	ttatgaatca	tngccttatt	420
tancangatc	aatgttaaa	ntggtgat	nnggcaagtn	tnaacacat	tnacantgct	480
agtntgattt	caactgngaa	ttgncttacc	gtnttttnaa	acctananga	atntatngac	540
acctnctctn	aatngnnncc	ctcaancacc	acnaaanctt	ttncnnccct	tncaaccccc	600
natcngaccn	cngcattcag	tngnaancng	aangactttc	atcacaactg	gncaanatnt	660
nggacttttg	cgccatgcnn	accctcttgg	nctttngaac	nnggttgcc	tttnggactt	720
tnccctgng	ngataaccac	cn				742

<210> 326

<211> 747

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (747)

<223> n = A,T,C or G

<400> 326

atgnttttaag	tatacgactc	actatagggc	gaattgggcc	ctctagatgc	atgctcgagc	60
ggccgccagt	gtgatggata	tctgcagaat	tgcgcccttc	gagcggccgc	ccgggcaggt	120
actgtatcat	tggcagatgt	gacgtcaccg	acaaccagag	tgaagtggcg	gacaaaactg	180
aggattacct	gtggctgaag	ttgaaccaag	tgtgttttga	cgacgatggc	accagctccc	240
cacaagacag	gctcactctc	tcacagttcc	agaagcagtt	gttggaagac	tatggcgagt	300
cccactttac	ggtgaaccag	caacccttcc	tctacttcca	agtccctgtt	ctgacagcgc	360
agtttgaagc	agcagttgcc	tttcttttcc	gcatggagcg	gctgcgctgc	catgctgtcc	420
atgtagcact	ggtgctgttt	gagctgaagc	tgctttttaa	gtcctctgga	cagagtgtcc	480
aactcctcag	ccacgaacct	ggtgacctt	cttgcttgcg	gcggetgaac	ttcgtgcggc	540
tctctactgt	gtacctcgcc	cgngaccacg	ctaaggcgca	attccagcac	actggcggn	600
gttactagt	gtaccgagct	cggtaccaaa	cttggcgtaa	tcattggnat	agctgggtcc	660
tgtgtgaaat	ggtatccgtt	acaatttcac	acaacatagc	agccgggaag	catnaagtgt	720
naaacctggg	gtgcctnatg	agtgach				747

<210> 327

<211> 724
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(724)
<223> n = A,T,C or G

<400> 327
gtnatgaaac cnttctntng ngcatgctcg agcggccgcc agtgtgatgg atatctgcag 60
aattcgccct ttcgagcggc cgcccgggca ggtactgtat cattggcaga tgtgacgtca 120
ccgacaacca gagtgaagtg gcggacaaaa ctgaggatta cctgtggctg aagttgaacc 180
aagtgtgttt tgacgacgat ggcaccagct ccccaacaaga caggctcact ctctcacagt 240
tcacagaagca gttgttggaa gactatggcg agtcccactt tacggtgaac cagcaaccct 300
tcctctactt ccaagtccctg ttcttgacag cgcagtttga agcagcagtt gcctttcttt 360
tcgcgatgga gcggctgcgc tgccatgctg tccatgtagc actggtgctg tttgagctga 420
agctgctttt aaagtccctt ggacagagtg ctacagctcct cagccacgag cctggtgacc 480
ctccttgctt gcggcggctg aacttcgtgc ggctcctcat gctgtacctc ggccgcgacc 540
acgctaaggc cgaattccag cacactggcg gccgttacta gtggatccga gctcgggtacc 600
aagcttggcg taatcatggt catagctggt tcctgtgtga aattgtatcc gctcacaaatt 660
ncacacaaca tacgagccgg aagcataaag tgtaaacctt ggggtgccta atgagtgaac 720
taan 724

<210> 328
<211> 747
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 328
tgnntgttag atacgactca ctatagggcg aattgggccc tctagatgca tgctcgagcg 60
gcccgcagct gtgatggata tctgcagaat tcgcccttag cgtggctcgc gccgaggtac 120
tttttttttt ttttttaaag acagagtctt gctctgtcac ccaggctgga gtgcagtggc 180
acgatctcgg ctactgcaa gctctgcctc ccgggttcac gccattctcc tgccctagcc 240
tcccagtag ctgggactac aggtgccgc caccatgccc ggctgatttc tttttgtatt 300
tttagtagag acggagtttc accgtgttag ccaggatggt ctcgatctcc tgacctcgtg 360
atccgccgcg ctggcctcc aaagtgcctg gattacaggt gtgagctacc gcgcccgcc 420
tattatcttg tactttctaa ctgagccctc tattttcttt attttaataa tatttctccc 480
cacttgagaa tcacttgta gttcttgta ggaattcagt tgggcaatga taacttttat 540
gggcaaaaac attctattat agtgaacaaa tgaaaataac agcgtatttt caatattttc 600
ttattcctta aattccactc ttttaacact atgcttaacc acttaatgtg atgaaatatt 660
cctaaaagtt aaatgactat taaagcatat attggtgcat gnataatta aagtaccga 720
tactctaat aaaaatccac tggccn 747

<210> 329
<211> 725
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(725)
<223> n = A,T,C or G

<400> 329
gcgtttcaan tgggccctct ngngcatgct cgagcggccg ccagtgtgat ggatatctgc 60
agaattcgcc cttagcgtgg tcgcggcga ggtacttttt tttttttttt taaagacaga 120

gtcttgcctc	gtcaccagg	ctggagtgc	gtggcagat	ctcggtcac	tgcaagctct	180
gcctccggg	ttcacgccat	tctcctgct	cagcctccg	agtagctggg	actacaggtg	240
cccgcacca	tgcccgctg	atttctttt	gtatttttag	tagagacgga	gtttcaccgt	300
gtagccagg	atggtctcga	tctcctgacc	tcgtgatccg	cccgcttgg	cctccaaagt	360
gctgggatta	cagggtgtgag	ctaccgcgcc	cggcctatta	tcttgtactt	tctaactgag	420
ccctctattt	tctttatttt	aataatattt	ctccccactt	gagaatcact	tgtagttct	480
tggtaggaat	tcagttgggc	aatgataact	tttatgggca	aaaacattct	attatagtga	540
acaaatgaaa	ataacagcgt	attttcaata	ttttcttatt	ccttaaatcc	cactctttta	600
acactatgct	taaccactta	atgtgatgaa	atattcctaa	aagttaaatg	actattaaag	660
catatattgg	tgcatgtata	tattaagtag	cccgatctct	naataaaaat	ccactggtac	720
agata						725

<210> 330

<211> 741

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(741)

<223> n = A,T,C or G

<400> 330

gnnntganag	atagcactca	ctataggggc	aattggggccc	tctagatgca	tgctcgagcg	60
gccccccagt	gtgatggata	tctgcagaat	tcgcccttag	cgtggtcgcg	gccgaggtac	120
ttttttttt	ttttttttt	ttttttttt	ggaagtttaa	tttactcaca	gttcaacatg	180
gctggggagg	cctcaggaaa	tttacaatta	taacagaagg	caaaggggaa	gccagatacc	240
ttcttcacaa	gctggcgagg	aggagaagag	ccgagagaa	gcggaagaat	cccttataaa	300
accatcagat	ctcgtgagaa	ctcacttgct	atcaggagaa	cagcatgggg	gaaccgcccc	360
caggattcaa	tgacctncac	ctggctcttc	ccttgacacg	tgaggattat	ggggattaca	420
attccagatg	agatttgggt	ggggacacaa	agccaaacca	tatcaactgt	gactaccttg	480
ggtaagggcc	atccaggcag	aggcaggggg	aacattctgg	gcaaaggcct	tggggcaggg	540
gcctggtatg	ttcagatagc	ancaagtagg	ccagantggc	cggaggggag	taagtgtggg	600
gaggccagtg	ganagatgag	ggtaggggag	ggatggatca	gatcatgcag	ggccccgggg	660
gccacaggaa	ngacctnagc	attactgca	agtaangtgg	gaaccatcga	atgtctaagc	720
naggaggaat	ccctgtgact	c				741

<210> 331

<211> 727

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(727)

<223> n = A,T,C or G

<400> 331

gtnnnnncan	ngggccctct	agatgcatgc	tcgagcggcc	gccagtggtga	tgatatactg	60
cagaattcgc	ccttagcgtg	gtcgcggccg	aggtactttt	ttttttttt	ttttttttt	120
ttttttggaa	gtttaattta	ctcacagttc	aacatggctg	gggaggcctc	aggaaattta	180
caattataac	agaaggcaaa	ggggaagcca	gataccttct	tcacaagggtg	gcaggaagga	240
gaagagccga	gagaaggcgg	aagaatccct	tataaaacca	tcagatctcg	tgagaactca	300
cttgctatca	ggagaacagc	atgggggaac	cgccccagg	attcaatgac	ctccacctgg	360
tctctccctt	gacacgtgag	gattatgggg	attacaattc	cagatgagat	ttgggtgggg	420
acacaaagcc	aaaccatata	aactgtgact	accttgggta	agggccatcc	aggcagaggc	480
aggggggaaca	ttctgggcaa	aggccttggg	gcaggggcct	ggtatgttca	gatagcagca	540
agtagggccag	antggccgga	ggggagtaag	tgtggggagg	ccagtggaaa	aatganggta	600
gggaaaggga	tggatcagat	catgcagggc	cccgggggcc	acangaagga	cctnacattt	660
actgcaagta	angtgggagc	catcgaatgt	tctaagcana	ngangaatcc	ctngnactca	720
ngtggttn						727

<210> 332
<211> 734
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(734)
<223> n = A,T,C or G

<400> 332
gnntganagt atacgactca ctataggcg aattgggccc tctagatgca tgctcgagcg 60
gccccccagt gtgatggata tctgcagaat tcgccctttc gagcggccgc ccgggcagggt 120
acccttctcg cttttgccat tagccaagga tagaagctgc agtgggtatta attttgatat 180
aatctttcaa accagcttca tgtggcttcc cttttctttg ttcaagatga gggccaggag 240
gggaaacatc acacctgccc taaacctgt tcttgagggt cagcatttga tctgttgcaa 300
gccccctttt ctgtcccttc ttcctaccct gcctcccatg actttgctcc tcacactttt 360
ggaaccatgc cttccggggg ggcccatctc ttctggccgt ccttgtctct gggccacttg 420
gagtgtgtga taaatcagtc aagctgttga agtctcagga gtctctggta gcctgcagaa 480
gtaagctca tcatcagagc ctttcctcaa aactggagtc ccaaatgtca tcagggtttg 540
nttttttttc aaccactaag aacctctctg cttttaactc tagaatttgg gcttgagcca 600
gatctaact cttgaatact ctgccctcta gaccttcacc ttaatggaan gtggatccca 660
ngangtgta atggacatca agccactcgc ggcagcatgg agctatacta agcatcctta 720
nggtctgcct ctcn 734

<210> 333
<211> 710
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 333
ntgggccctc tngnctgct cgagcgccgc ccagtgtgat ggatatctgc agaattcgcc 60
ctttcgagcg gccgcccggg caggtaccct tctcgctttt gccattagcc aaggatagaa 120
gctgcagtgg tattaatttt gatataatct ttcaaaccag cttcatgtgg cttccctttt 180
ctttgttcaa gatgagggcc aggaggggaa acatcacacc tgccctaaac cctgttcctg 240
gaggtcagca tttgatctgt tgcaagcccc tctttctgtc cctcttctct accctgcctc 300
ccatgacttt gctcctcaca cttttggaac catgccttcc gggggggccc atctcttctg 360
gccgtccttg tctctgggcc acttgaggatg tgtgataaat cagtcaagct gttgaagtct 420
caggagtctc tggtagcctg cagaagtaag cctcatcatc agagcctttc ctcaaaactg 480
gagteccaaa tgtcatcagg ttttgttttt ttttcagcca ctaagaaccc ctctgctttt 540
aactctagaa tttgggcttg gaccagatct aacatcttga atactctgcc ctctagagcc 600
ttcagcctta atggaagggt ggatccaang anggtgtaat ggaacatcaa gccactcgcc 660
gcagcatgga gctatactaa gcctccttta nggtctgcct cttcagcatt 710

<210> 334
<211> 2051
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(2051)
<223> n = A,T,C or G

<400> 334
gcccttgccct cagcctaccc agtagctggt gatggccatc cttttataaa tgcaacgtcc 60
ttcgttccctg ttaagtcatg ggggaggaag gccctttctc tcttcagtct aataatcaac 120

tggtcactat	tcacaatagc	aacatcatgg	gctgaacct	tgtgtccatc	aacagatgat	180
tagattttta	aatgtgcata	tataccatgg	aatacatagc	caaccatcaa	aaataatgaa	240
atcacatctt	ttgcagcaat	atggatggaa	ctggaagccc	ttatcgtaag	tgaaatgact	300
cagagacaga	aagtcagaaa	ctgcatgttc	tcatttggaa	actgaaaatc	acacacacat	360
aaatctaata	aagacatggg	tactttatct	tcaaaacact	catatgttgc	aaaaaacaca	420
tagaaaaata	aagtttgggtg	ggggtgctga	ctaaacttca	agtcacagac	ttttatgtga	480
cagattggag	caggggttgt	tatgcatgta	gagaacccaa	actaatttat	taaacaggat	540
agaaacaggc	tgtctgggtg	aaatggttct	gagaaccatc	caattcacct	gtcagatgct	600
gatagactag	ctcttcagat	gtttttctac	cagttcagag	atgggttaat	gactagtcc	660
aatggggaaa	aagcaagatg	gattcacaaa	ccaagtaatt	ttaaacaaag	acactttttt	720
ttttttttgc	aacacaatat	acatcacagt	gaaatgtgta	atccttgcaa	attgcaagtt	780
gaagaatta	aattcagagg	aggggagaga	aagagtactc	agtagggact	gagcactaaa	840
tgcttatttt	aaaagaaatg	taaagagcag	aaagcaattc	aggctaccct	gcctttttgtg	900
ctggctggaa	ctccggtcgg	tgtcagcagc	acgtggcatt	gaacattgca	atgtggagcc	960
caaacacacag	aaaatgggggt	gaaattggcc	aactttctat	taacttatgt	tggcaatttt	1020
gccaccaaca	gtaagctggc	ccttctaata	aaagaaaatt	gaaaggtttc	tcactaaacg	1080
gaattaagta	gtggagtcaa	gagactccca	ggcctcagcg	tacctcatta	gtaattgttt	1140
tggtgtttca	tttttttcta	atgtctcccc	tctaccagct	cacctgagat	aacagaatga	1200
aaatgggaag	acagccagat	ttctcctttg	ctctctgctc	attctctctg	aagtctaggt	1260
taccattttt	ggggacccat	tataggcaat	aaacacagtt	cccaaagcat	ttggacagtt	1320
tcttgtttgt	ttttagaatg	gttttccctt	ttcttagcct	tttcttgcaa	aaggctcact	1380
cagtcctttg	cttgcctcagt	ggactgggct	ccccagggcc	taggctgctc	tcttttccat	1440
gtcccaccca	tgagccctcc	actggacagc	tcagttaagg	tggcccttca	ttctgcgctg	1500
tggtcttctc	ctgtgaaaat	ccaatacctc	ttacctctc	tgcattgcaa	gattctcaag	1560
gattgtcaga	cttcaaacgt	aacagcagaa	ccaccagaag	gtcctataaa	tgcagtagtg	1620
accttctcaa	gctgtcaggt	ctttaaatag	gatttgggat	ttaatgctat	gtatttttaa	1680
aggaaagaaa	taagagtgtg	tagtwttaaa	aatgcattgc	ttttagccaa	ttcagaatct	1740
gcccccaaac	tttttttaaaa	agtcaagaca	gataaagctt	tggggagacg	gaaaaaaaaa	1800
aaaaaaaaaa	aacaagtacc	tcggccgcga	ccacgctaag	ggcgaaattc	agcacactgg	1860
cggccgttac	tagtgggttc	nanncccggg	acnaancctt	gggggtttta	caagggcnaa	1920
anngggttnc	cggggntnaa	aattgttacc	cgcnaaaaat	tccnaaaaaa	natncgaacc	1980
cggaaancca	taaanntntn	aancccnngn	ggcnaagggt	agnnnnaaac	cccnaataaa	2040
tggnntggnc	c					2051

<210> 335

<211> 1312

<212> DNA

<213> Homo sapien

<400> 335

acctagaaaa	cagaaacttg	agtagacatg	gtaatgacca	gaaaaggcta	tctttataca	60
tttcttttgc	tacgcttcaa	attcatgtca	cctaaaagtt	gtgaagtgca	caaaacaaat	120
ctacttaact	gaaaattatt	ttcaatgaat	gggatgttta	gaactctgtg	aggggtttta	180
aggtcttttc	gaatagcaaa	ttctaagtga	gcttttttaa	gttggcaatt	taaaactcata	240
caagaaataa	aaactcacca	gtgtggctgg	gcagaatata	tataatttct	caaataattgt	300
ttgtttgttt	tttccctgca	ctgtatccat	ggccccatga	tgaactgttt	atattgtctga	360
tatatattat	ggaatatgtg	ggccaacttc	ctttccactc	aacatatgga	ttggtagttt	420
aaaataattc	ctttctatta	agcaaatgtg	tggctaaggc	acatttaaat	agcccattaa	480
accaatgaga	tgacaatgtg	ttaccctcag	agaaagctta	atttttggag	taatcaatta	540
cacatatcac	agaatgtctc	atgagaacat	ttttggctag	gtctaccaat	ttatcatgca	600
aataattata	gattttcatt	tgaggcaaa	atgctgattc	atcattagta	acatggctcac	660
aaataatcat	ttattttatt	ttgtttaaca	tctgtctttc	ctgtggggaa	acttactata	720
tgctctacgt	ttattttaatt	taaaaagtca	attggttatt	ctgaattttt	aaaaataaca	780
taaaactgtt	gttctaaatc	acagcacctg	cttttctttt	tttagtgaaa	ttatataagc	840
atttagagaa	tgaaagtgtg	agacttgtgg	tttctgggtc	ctttttactg	tttgtaagcc	900
tactcgtcat	gatattccac	aatgggtgcac	ttgcctttta	atgctcttat	agatatcttc	960
aaacttgctc	acatatatac	gcctttgttg	gagtgggcta	ccatcatcag	gaatgatgtc	1020
atttgtttct	tcaaactcct	ttattatacc	aaaaaagtga	cagactccac	agtctgatca	1080
gttttgagaa	aatatgttaa	cattttcaat	tatctcactt	tctagaatca	aaatagctctg	1140
attttttttt	ttcggcactc	agtgtaaaga	acaaagaact	gaatacagtg	ggcccagaag	1200
agaaatatgc	ctatcatttt	ttattagctt	tggaaactgtg	gacaagtctc	tcaacctagt	1260
tttctcattt	tgaatgggtg	tggtgtggga	attaaaaaaa	aaaaaaaaaa	gt	1312

<210> 336
 <211> 787
 <212> DNA
 <213> Homo sapien

<400> 336
 acagccatga aattgttgc actcatagaa agtcttagta tagtttggtt taaacatttt 60
 aaaattgcaa ataaatatag atagataata tcatgatgag aaggtcacgg gaagcctgga 120
 gatttcaggg tgctctttca taattggagc gagaatcatg taacagttaa gaaactaaac 180
 tcttgagcct tcatagtctt tgctttctcc ccatttattt atctgatatt atataccctc 240
 ttttaattata gactggactg aaatatttta tttttgtttt attataaaaa atcctactcg 300
 tctttaacat gttctcttaa agagtgtttc atatatataat actttccccc caaaatataa 360
 agaggctaac cactatagta ttgaaagatt gaaagaaaga cctagggtgt ctaaaaccaa 420
 atttaaaggg tcagttctaa gaggagttaa aatgcttcct ttgtaagcac tttaaacttc 480
 atctttaaac attgatgaga atattataaa gaattcacia cagcagttac atggaggtag 540
 aaaagagtgt tgagaagaag gaggggtgatt gcaacaaata caaagaaact attgagatgt 600
 aacaagacg tgcaattacc tatgaatggg taaaccagtt atatatattg ctttcacagc 660
 atgagattat ttttaatttg aattggttta ccatgtaatg acacttccat tttaaagatt 720
 ttatgcattg aaccttaata ctctcaaggt ttccagactt cagagaggta gctcactt 780
 tcattgt 787

<210> 337
 <211> 772
 <212> DNA
 <213> Homo sapien

<400> 337
 acatcagtg tcatTTTTatt atttcttaca ctgtcttcat gacttacaca taatattttg 60
 ctagtTTTTaa aacataagat gtgataataa tctaaccaga ccaaaggaaa taaatgaata 120
 tgattaaaaa aagacagaga ataagccctg tctgatggaa agcataacaa agcaggtaga 180
 acaactgtca ggaatgcttg atccaataaa gctagggttg tgatccacaa cacttcagca 240
 ttttaattgtg atttttgatg tttgtctttt gcaatgggtg ttctcagttg cctccctcct 300
 gtgtctttac aagctgaaat caagtgaagc tacttctgac tttttctaaa acttaaaccc 360
 aacatgaagg tctgctgatt ctttcacatg tgcacgtatg tggcactttt ccatgatgca 420
 acagcagcgg gtctctagct aagctacagc agcagctcta agaggcagag gacctgaaa 480
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INTERNATIONAL SEARCH REPORT

Internat. Application No

PCT/US 99/13181

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 C12N15/12 C07K14/47 C12Q1/68 G01N33/68 C07K16/18
A61K31/70

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 C12N C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HILLIER, L. ET AL.: "WashU-NCI human EST project: zu71f08.s1 Soares testis NHT Homo sapiens cDNA clone 743463" EMBL DATABASE ENTRY AA609384, 1 October 1997 (1997-10-01), XP002128750 the whole document	1,2,7-9
A	--- HILLIER, L. ET AL.: "WashU-NCI human EST project 1997: zv83c03.s1 Soares total fetus Nb2HF8 9w Homo sapiens cDNA clone 760228" EMBL DATABASE ENTRY HS1226101; ACCESSION NUMBER AA425141 (VERSION 2), 28 October 1997 (1997-10-28), XP002128751 the whole document --- -/--	1,2,7-9

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

26 January 2000

Date of mailing of the international search report

02.05.2000

Name and mailing address of the ISA

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ANDRES S.M.

INTERNATIONAL SEARCH REPORT

Internal J Application No

PCT/US 99/13181

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HILLIER, L. ET AL.: "WashU-NCI human EST project: za83e08.r1 Soares fetal lung NbHL19W Homo sapiens cDNA clone 299174" EMBL DATABASE ENTRY HS287326; ACCESSION NUMBER W05287,8 May 1996 (1996-05-08), XP002128752 the whole document	1,2,7-9
A	--- WO 98 04689 A (UROCOR INC) 5 February 1998 (1998-02-05) page 4, line 8 -page 5 page 13 -page 52 page 66 -page 85 page 112 -page 122	1-11
A	--- HELLER ET AL: "DISCOVERY AND ANALYSIS OF INFLAMMATORY DISEASE-RELATED GENES USING cDNA MICROARRAYS" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, vol. 94, March 1997 (1997-03), pages 2150-2155, XP002100125 ISSN: 0027-8424 -----	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 99/ 13181

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-11 (all partially)

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest.

☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box 3.

Although claims 8 to 11 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Further defect(s) under Article 17(2)(a):

Continuation of Box 3.

Claims Nos.: 3 and 6

Present claims 3 and 6 relate to a nucleic acid sequences defined only by the (arbitrary) name of the clone they originate from. The use of these names in the present context is considered to lead to a lack of clarity within the meaning of Article 6 PCT. It is impossible to relate the clone names as given in claims 3 and 6 with the to be searched polynucleotide defined by SEQ ID 1. Consequently, no search has been carried out for claims 3 and 6 in the context of the first subject as mentionned on the communication pursuant to Art. 17(3)(a) PCT.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: Claims 1-11 (all partially)

A method for diagnosing or treating a prostate disorder by providing a probe, antisense, ribozyme capable of hybridizing to SEQ ID 1 or its complement, or an antibody capable of binding to a polypeptide encoded by SEQ ID 1.

Inventions 2 to 339: Claims 1,2,4,5,7-11 (all partially) and 3,6, 12-15 (all partially and as far as applicable)

As for subject 1. but respectively relating to SEQ IDs 2 to 339 (i.e. subject 2. corresponding to SEQ ID 2, subject 3. corresponding to SEQ ID 3, ..., subject 339. corresponding to SEQ ID 339) and when applicable including the polynucleotide, vectors, cells and a composition containing the corresponding polypeptide.

INTERNATIONAL SEARCH REPORT

Information on patent family members

Internat. Application No

PCT/US 99/13181

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9804689 A	05-02-1998	AU 6642996 A	20-02-1998
		EP 0951541 A	27-10-1999
		US 5882864 A	16-03-1999
